

OXA-1-like subfamily


OXA-1-like BBE55408.1 K.p.

OXA-1-like BBE55408.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
1M6K beta-lactamase OXA-1		STDISTVASPLFEGTEGCFL
OXA-1-like AVK27274.1	P.a.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AWE78522.1	P.a.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QLA55054.1	P.a.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QKG33210.1	P.a.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QOC40829.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QLF61683.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ANP63432.1	P.a.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QII98525.1	P.a.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AXL78701.1	P.a.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QEL33624.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QCZ41047.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QP060228.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ATW95033.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QBB08468.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QFH57730.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QFI25362.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QHC80210.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QMT04262.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QPD73921.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QPO69359.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QPO94996.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QQA69926.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ASP02997.1	E.spp.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AOF07832.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like APD44928.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AWF45003.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AWW26315.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like BBE66685.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AR49869.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ART03029.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ART14043.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AT008041.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ATQ97012.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AUD20317.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AUD31186.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AUD36737.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AVF14577.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AWC05483.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QAZ99397.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QIF88052.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QLF61156.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QLF66737.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QLG18431.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AIT04829.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AKE78741.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ANK19483.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like AOF02731.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
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OXA-1-like APM47234.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like APM56693.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like APM62285.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like APM67903.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like APP44482.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like APQ29072.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like APR51020.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ARM26101.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ARM26250.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ART14424.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ARX22868.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ARZ96561.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like ASC31826.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
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OXA-1-like QIF55813.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like VAX91792.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like VAX91482.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QQL36550.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QPP73193.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QPJ20091.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QPB99042.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL
OXA-1-like QPA13355.1	K.p.	MKNTIHHINFAIFLIIANIYSSASASTDISTVASPLFEGTEGCFL

OXA-1-like subfamily

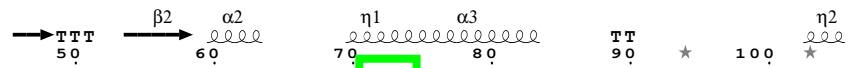
OXA-1-like_QDZ35954.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QCX07927.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QBH11436.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QBF99632.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QBD88840.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QBA36467.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QAZ94541.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_BBE58940.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_BBE06733.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AZI07357.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AZH52602.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AZG68296.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AZG62714.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AYD37605.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AXZ62257.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AXZ56762.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AXZ10749.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AWR57732.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AWQ55663.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AWQ55646.1 K.p.	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
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OXA-1-like_AW049662.1 K.p.	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AW044383.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AW039120.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AWC00236.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AWA71813.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AVO80920.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AUX60365.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR77794.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR72263.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR66734.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR61171.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR39902.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR34406.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR28842.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATR07462.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATQ91613.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATQ27236.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ASC42867.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QKK74875.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATM40508.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ATM68467.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ASC37513.1 K.p.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AQU64164.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AQU64317.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_APV28290.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_APV22515.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_ANF44129.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AIG86468.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_AHI38983.1 K.p.	MLAVKIKPFTKPILI	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QCP74266.1 P.a.	.....	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL
OXA-1-like_QDE47052.1 E.spp.	MKNTIHHINFAIFLLIIANIIYSSASA	STDISTVASPLFEGTEGCFL

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OXA-1-like_BBE55408.1_K.p.



OXA-1-like_BBE55408.1_K.p.
 1M6K_beta-lactamase_OXA-1-like_AKV27274.1_P.a.
 OXA-1-like_AWE78522.1_P.a.
 OXA-1-like_QLA55054.1_P.a.
 OXA-1-like_QKG33210.1_P.a.
 OXA-1-like_QC40829.1_K.p.
 OXA-1-like_QLF61683.1_K.p.
 OXA-1-like_ANP63432.1_P.a.
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 OXA-1-like_QEG84620.1_K.p.

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OXA-1-like subfamily

OXA-1-like_QD235954.1_K.p.
OXA-1-like_QC807927.1_K.p.
OXA-1-like_QBH11436.1_K.p.
OXA-1-like_QBF99632.1_K.p.
OXA-1-like_QBD88840.1_K.p.
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OXA-1-like_AZH52602.1_K.p.
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OXA-1-like_AYD37605.1_K.p.
OXA-1-like_AZ622257.1_K.p.
OXA-1-like_AZ256762.1_K.p.
OXA-1-like_AX210749.1_K.p.
OXA-1-like_AWR57732.1_K.p.
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OXA-1-like_AH138983.1_K.p.
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[illegible]

OXA-1-like subfamily

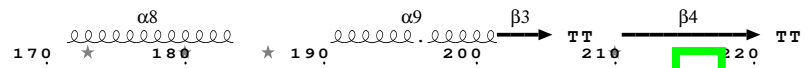
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OXA-1-like AWE78522.1_P.a.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like QLA55054.1_P.a.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like QKG33210.1_P.a.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
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OXA-1-like ANP63432.1_P.a.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like QI198525.1_P.a.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like AXL178701.1_P.a.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like QEI33624.1_E.spp.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
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OXA-1-like QFH57730.1_E.spp.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
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OXA-1-like QQA69926.1_E.spp.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like ASP02997.1_E.spp.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like AOF07832.1_K.p.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like APD44928.1_K.p.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like AWF45003.1_K.p.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
OXA-1-like AWF42631.1_K.p.	NSNHTPKTWMQFSVVVWSQEI	ITQKIGLNKIKNYLKDF	YGN	QDFSGDKERNNGLTEAWLE												
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OXA-1-like subfamily

OXA-1-like_BBE55408.1_K.p.

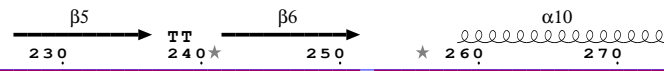
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OXA-1-like subfamily

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OXA-1-like_QBD88840.1 K.p.	SSLKISPEEQIQFLRKIIINHNLVPVKNSAIEN	TIENMYLQDLDNSTKLYGKTGAGFTANR
OXA-1-like_QBA36467.1 K.p.	SSLKISPEEQIQFLRKIIINHNLVPVKNSAIEN	TIENMYLQDLDNSTKLYGKTGAGFTANR
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OXA-1-like_AWQ55663.1 K.p.	SSLKISPEEQIQFLRKIIINHNLVPVKNSAIEN	TIENMYLQDLDNSTKLYGKTGAGFTANR
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OXA-1-like subfamily

OXA-1-like_BBE55408.1_K.p.



OXA-1-like BBE55408.1_K.p.
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OXA-1-like subfamily

OXA-1-like_QD235954.1_K.p.
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 OXA-1-like_AZT07357.1_K.p.
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 OXA-1-like_AW71813.1_K.p.
 OXA-1-like_AV080920.1_K.p.
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 OXA-1-like_AU77794.1_K.p.
 OXA-1-like_ATR72263.1_K.p.
 OXA-1-like_ATR66734.1_K.p.
 OXA-1-like_ATR61171.1_K.p.
 OXA-1-like_ATR39902.1_K.p.
 OXA-1-like_ATR34406.1_K.p.
 OXA-1-like_ATR28842.1_K.p.
 OXA-1-like_ATR07462.1_K.p.
 OXA-1-like_AT091613.1_K.p.
 OXA-1-like_AT027236.1_K.p.
 OXA-1-like_ASC42867.1_K.p.
 OXA-1-like_QMK74875.1_K.p.
 OXA-1-like_ATM40508.1_K.p.
 OXA-1-like_ATM68467.1_K.p.
 OXA-1-like_ASC37513.1_K.p.
 OXA-1-like_AQU64141.1_K.p.
 OXA-1-like_AQU64317.1_K.p.
 OXA-1-like_APV28290.1_K.p.
 OXA-1-like_APV22515.1_K.p.
 OXA-1-like_ANF44129.1_K.p.
 OXA-1-like_AIG86468.1_K.p.
 OXA-1-like_AIH38983.1_K.p.
 OXA-1-like_QCP74266.1_P.a.
 OXA-1-like_QDE847052.1_E.spp.

[illegible]

acc

OXA-2-like subfamily

IK38 1 Beta-lactamase

1K38 1 Beta-lactamase

OXA-2-like VAV79013.1_E.spp.
OXA-2-like AXK42030.1_A.b.
OXA-2-like APV34059.1_K.p.
OXA-2-like ARG68543.1_P.a.
OXA-2-like ARK22308.1_P.a.
OXA-2-like SZD41030.1_P.a.
OXA-2-like ASA15328.1_P.a.
OXA-2-like ASA17138.1_P.a.
OXA-2-like ASD12027.1_P.a.
OXA-2-like AY257805.1_P.a.
OXA-2-like QPV55945.1_P.a.
OXA-2-like AX874056.1_P.a.

MSRAPVVRDRRIISVRKSRPACCCPHCCSTRRRSTRVCRAFDPPVCGGVLLRORCVLGLV

acc

IK38 i Beta-lactamase

1K38 1 Beta-lactamase

OXA-2-like VAV79013.1_E.spp.
OXA-2-like AXX42030.1_A.b.
OXA-2-like APV34059.1_K.p.
OXA-2-like ARG65543.1_P.a.
OXA-2-like AVK22308.1_P.a.
OXA-2-like SZD41030.1_P.a.
OXA-2-like ASA15328.1_P.a.
OXA-2-like ASA17138.1_P.a.
OXA-2-like ASD12027.1_P.a.
OXA-2-like AY257805.1_P.a.
OXA-2-like QPV55945.1_P.a.
OXA-2-like ASX874056.1_P.a.

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acc

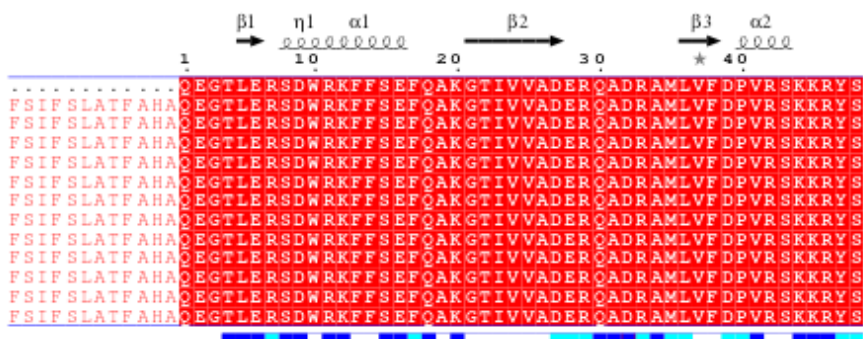
IK38 i Beta-lactamase

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OXA-2-like APV34059.1_K.p.
OXA-2-like ARG65543.1_P.a.
OXA-2-like AVK22308.1_P.a.
OXA-2-like SZD41030.1_P.a.
OXA-2-like ASA15328.1_P.a.
OXA-2-like ASA17138.1_P.a.
OXA-2-like ASD12027.1_P.a.
OXA-2-like AY257805.1_P.a.
OXA-2-like QPV55945.1_P.a.
OXA-2-like ASX74056.1_P.a.

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acc



acc

1K38 1 Beta-lactamase

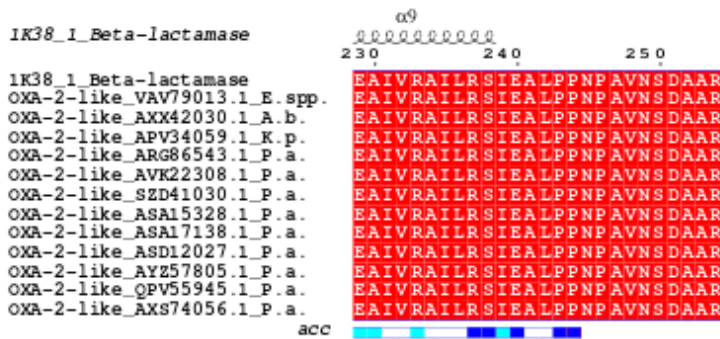
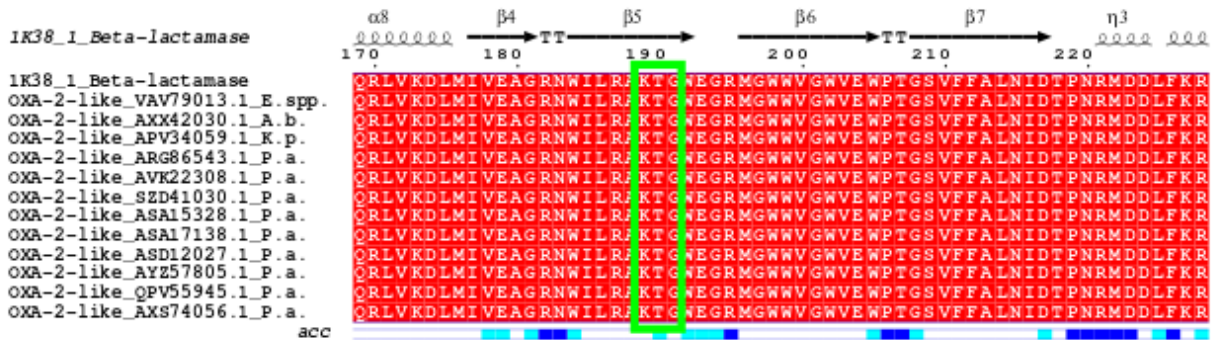
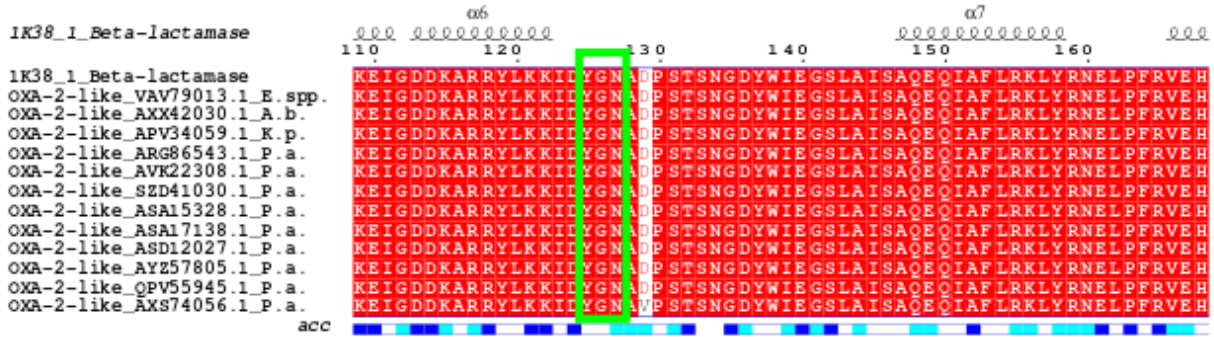
1K38 1 Beta-lactamase

OXA-2-like VAV79013.1_E.spp.
 OXA-2-like ASX42030.1_A.b.
 OXA-2-like APV34059.1_K.p.
 OXA-2-like ARG86543.1_P.a.
 OXA-2-like ARV22308.1_P.a.
 OXA-2-like SZD41030.1_P.a.
 OXA-2-like ASA15328.1_P.a.
 OXA-2-like ASAI7138.1_P.a.
 OXA-2-like ASD12027.1_P.a.
 OXA-2-like AY257805.1_P.a.
 OXA-2-like QPV55945.1_P.a.
 OXA-2-like ASX74056.1_P.a.

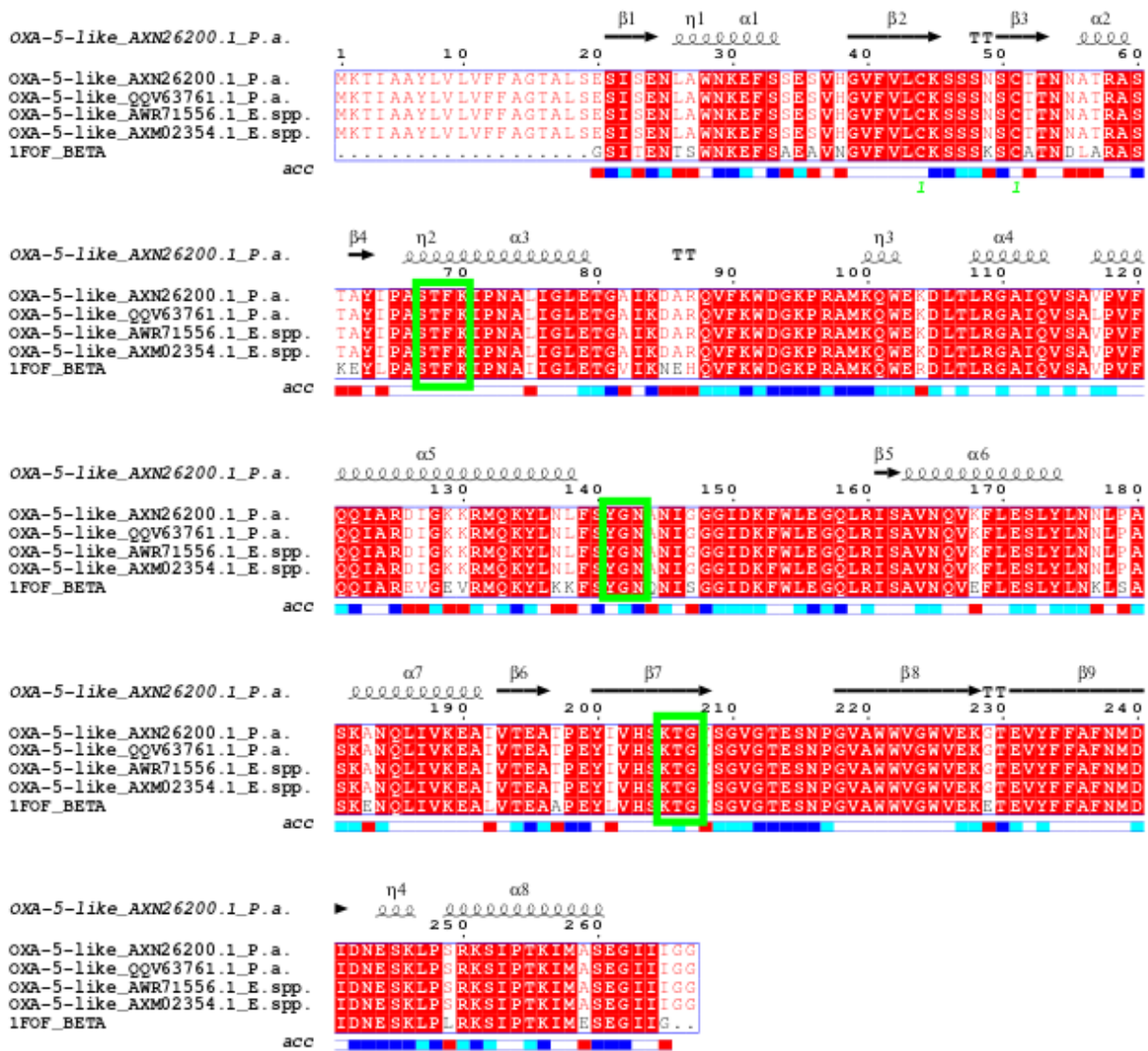
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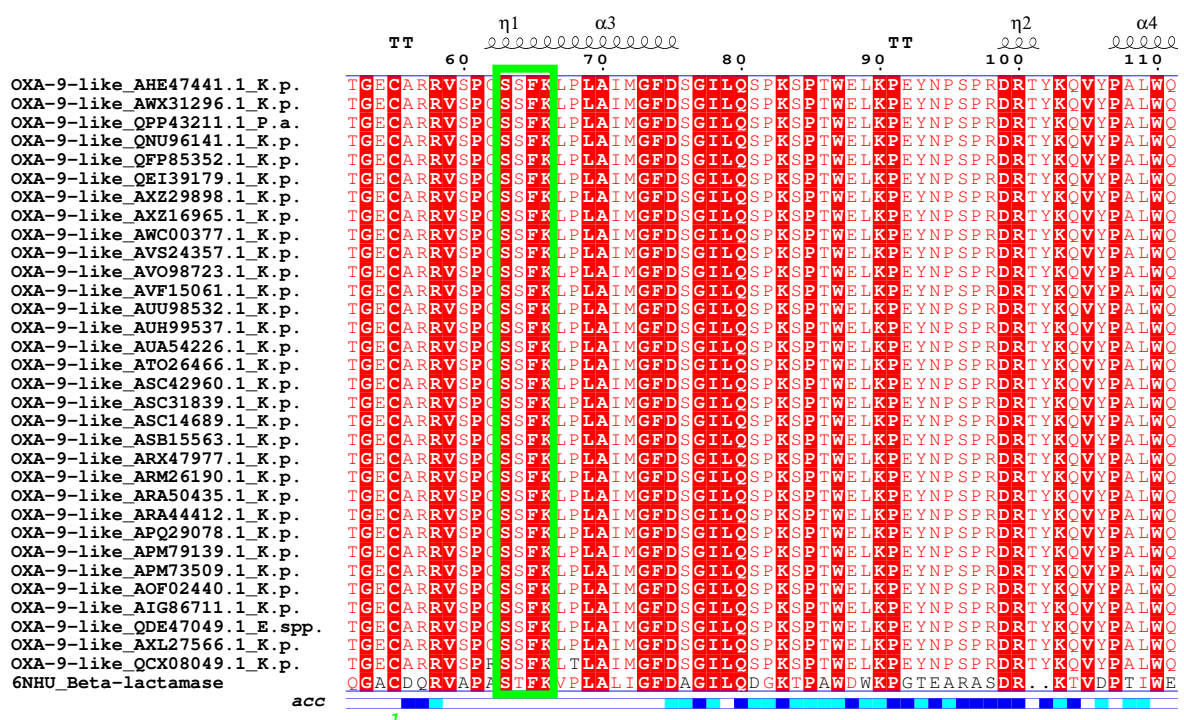
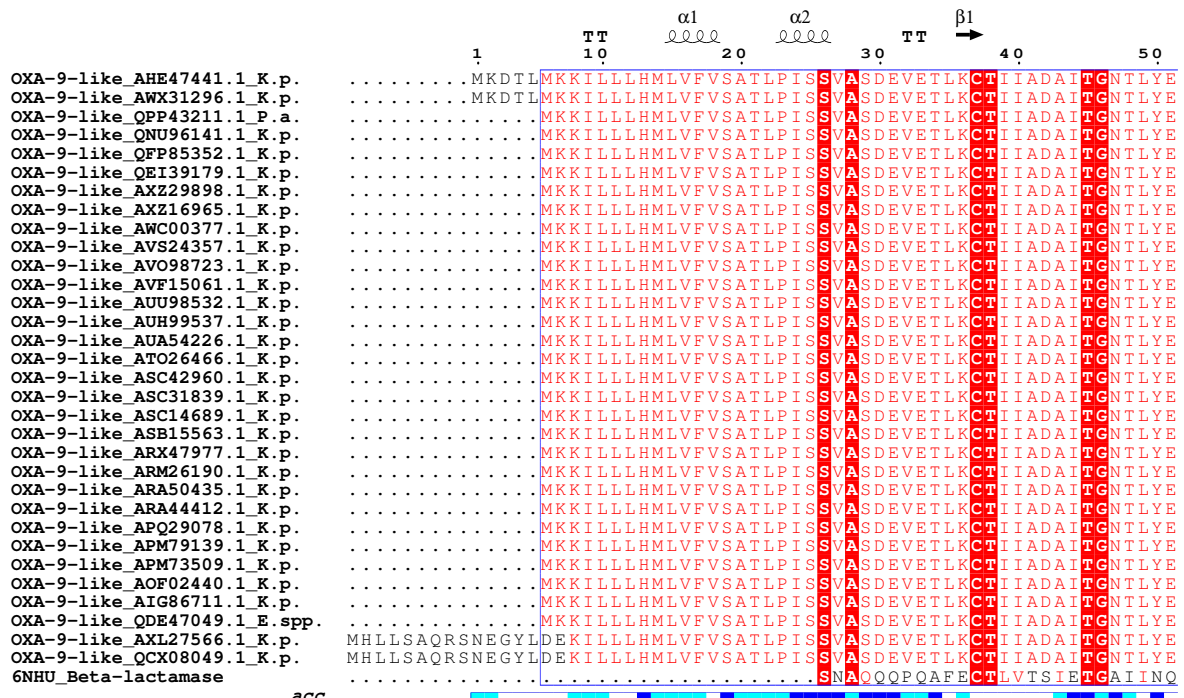
OXA-2-like subfamily



OXA-5-like subfamily



OXA-9-like subfamily

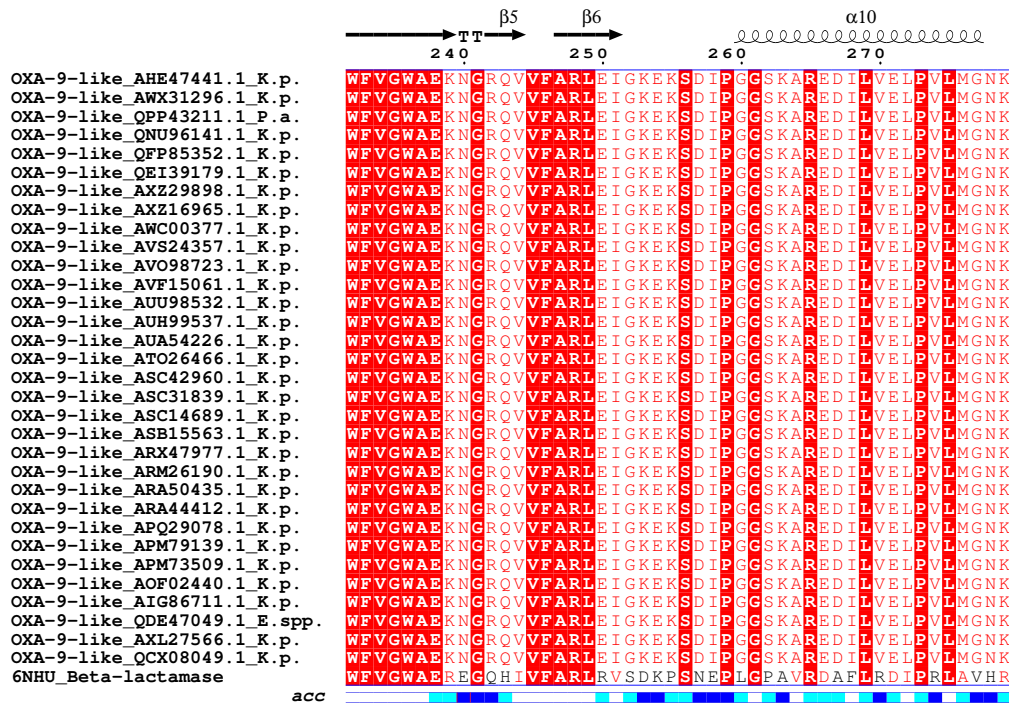


OXA-9-like subfamily

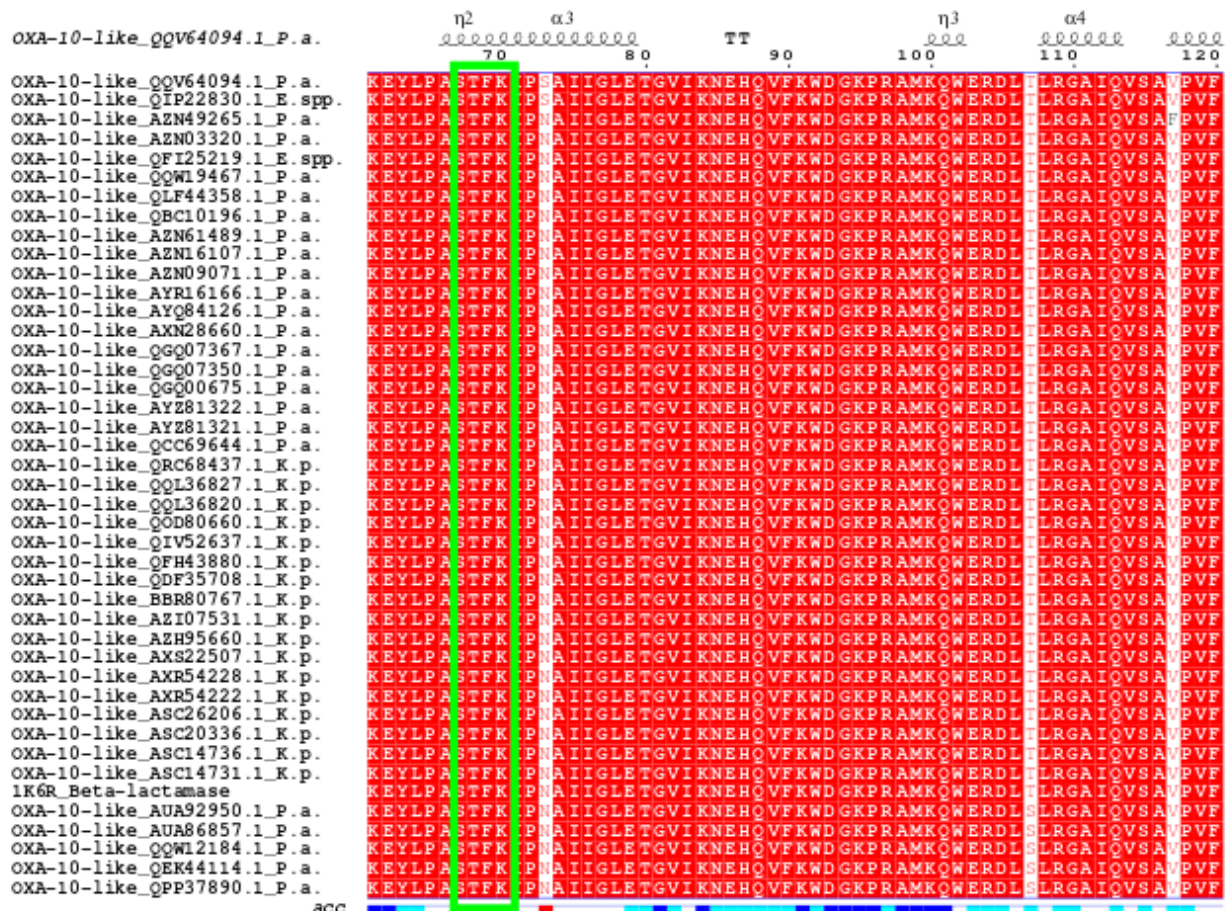
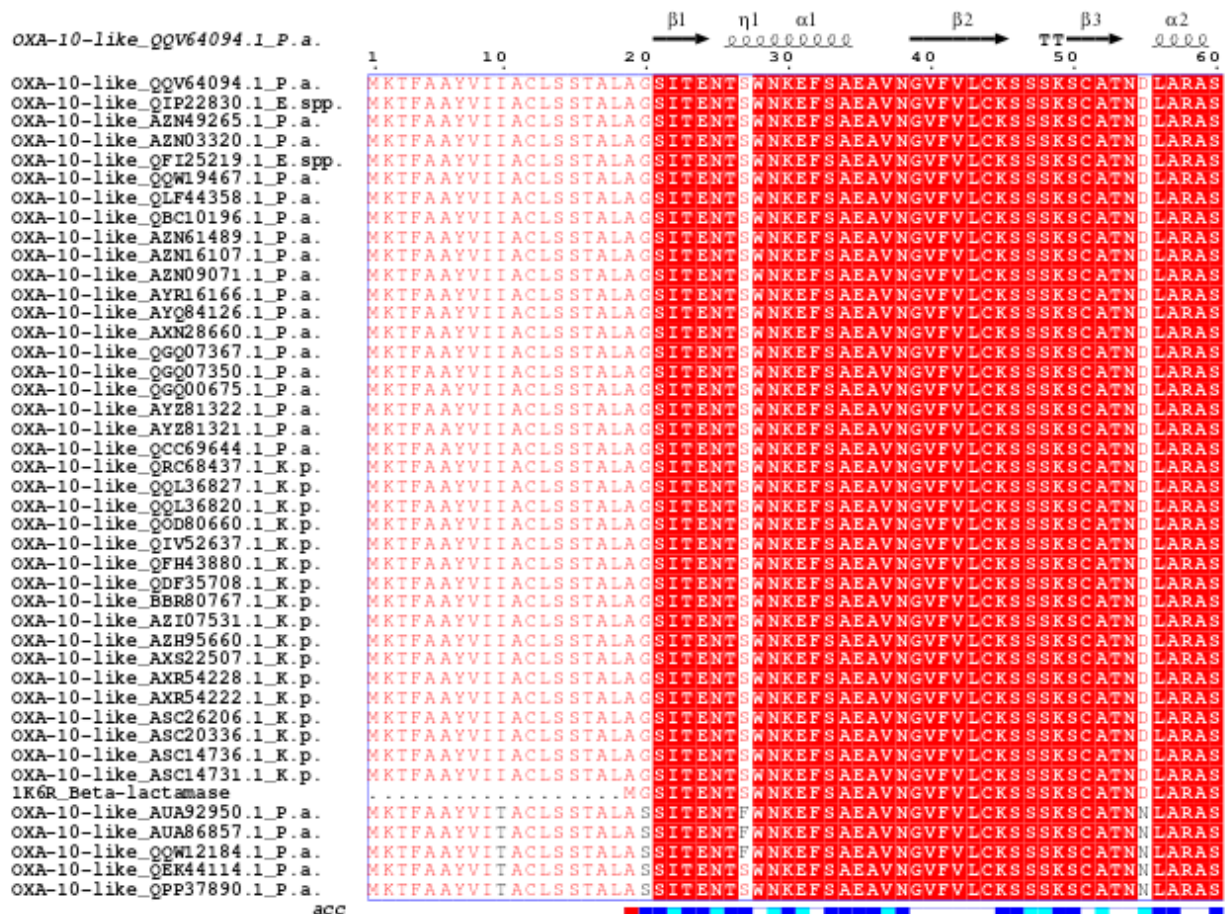
	α5	α6	α7	
	120	130	140	150 160 170
OXA-9-like_AHE47441.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AWX31296.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_QPP43211.1 P.a.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_QNU96141.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_QFP85352.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_QBI39179.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AXZ29898.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AXZ16965.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AWC00377.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AVS24357.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AVO98723.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AVF15061.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AUU98532.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AUH99537.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AUA54226.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ATO26466.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ASC42960.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ASC31839.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ASC14689.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ASB15563.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ARX47977.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ARM26190.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ARA50435.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_ARA44412.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_QDE47049.1 E.spp.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_AXL27566.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
OXA-9-like_QCX08049.1 K.p.	SDSVVWF	SQQLTSRLGVDRFTBYVKKFF	YGN	DVSGDS
6NHU_Beta-lactamase	QDSVLEWY	SREITRLRGPEKFAAYVKKRLC	YGN	DVSGEP
acc				

	α8	α9	β2	β3	TT	β4
	180	190	200	210	220	230
OXA-9-like_AHE47441.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AWX31296.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_QPP43211.1 P.a.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_QNU96141.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_QFP85352.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_QBI39179.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AXZ29898.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AXZ16965.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AWC00377.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AVS24357.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AVO98723.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AVF15061.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AUU98532.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AUH99537.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AUA54226.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ATO26466.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ASC42960.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ASC31839.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ASC14689.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ASB15563.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ARX47977.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ARM26190.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ARA50435.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_ARA44412.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_APQ29078.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_APM79139.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_APM73509.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AOF02440.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AIG86711.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_QDE47049.1 E.spp.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_AXL27566.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
OXA-9-like_QCX08049.1 K.p.	IQFLRFV	VAHKL	LPVSEAA	YDMAY	ATIPQYQAAEGWAVHGXSGSGWLRDNN	GKINESR
6NHU_Beta-lactamase	VGFLRL	LLGGN	LPESRD	AQAKTR	AIMPVFDAPESWAVHGXSGSGWLRDNN	GKINESR
acc						

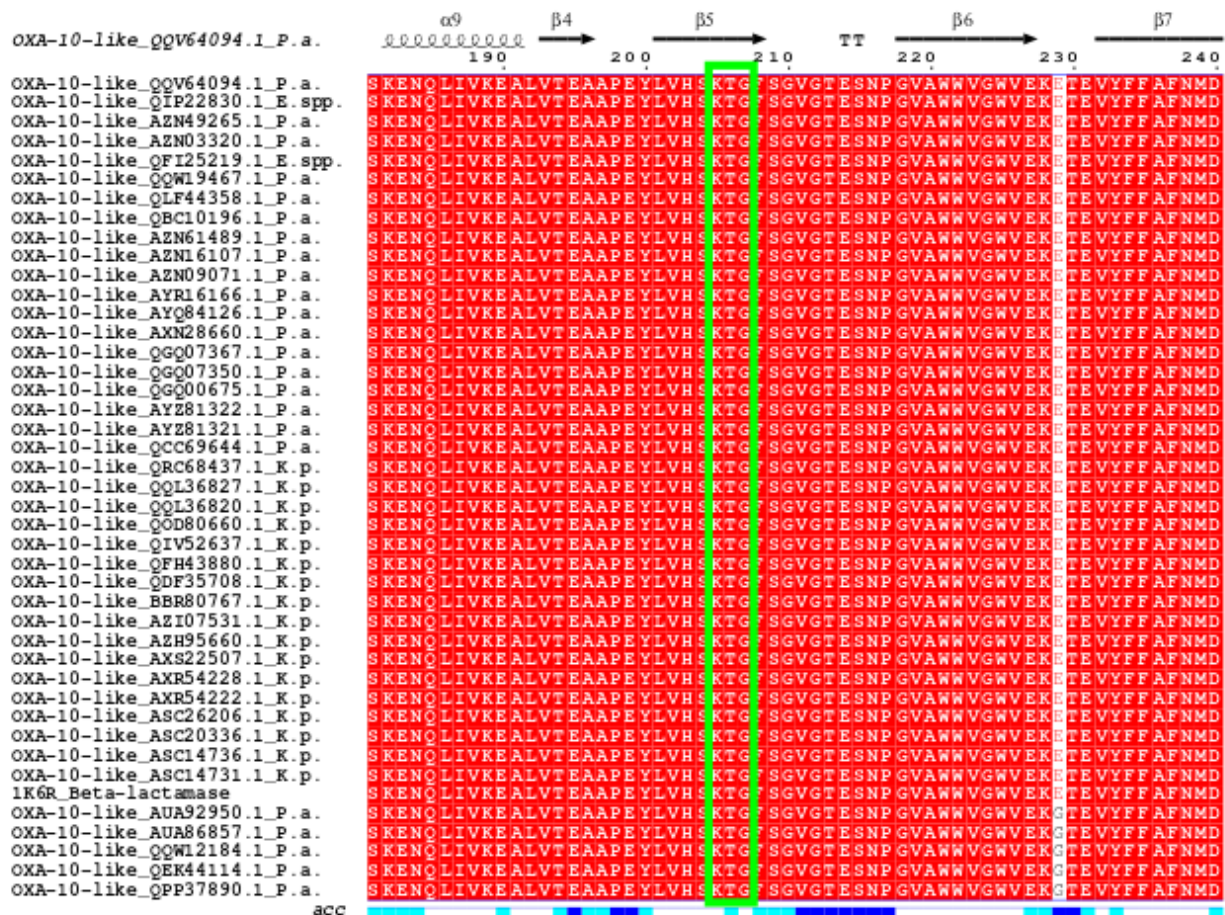
OXA-9-like subfamily



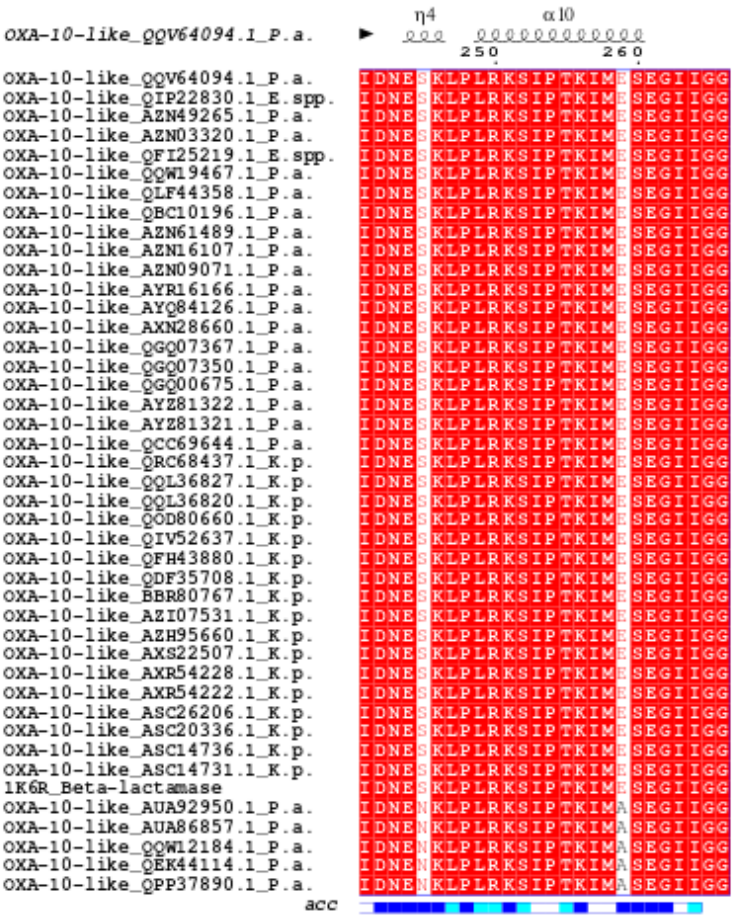
OXA-10-like subfamily



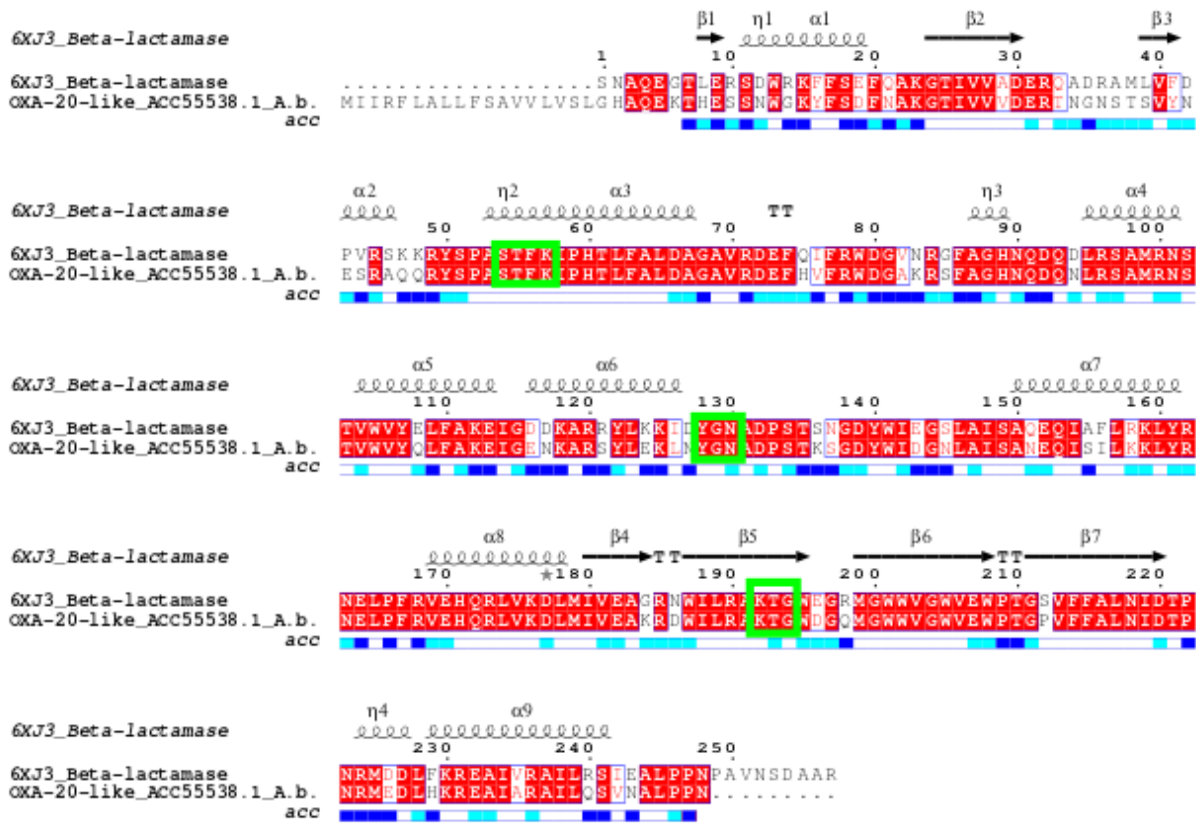
OXA-10-like subfamily



OXA-10-like subfamily



OXA-20-like subfamily




OXA-23-like subfamily

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 OXA-23-like_QEY29496.1 A. b.
 OXA-23-like_QIX29121.1 A. b.
 OXA-23-like_QIX32951.1 A. b.
 OXA-23-like_QIX36912.1 A. b.
 OXA-23-like_QIX40711.1 A. b.
 OXA-23-like_QIX44509.1 A. b.
 OXA-23-like_QJG69304.1 A. b.
 OXA-23-like_QJG70467.1 A. b.
 OXA-23-like_QJG70485.1 A. b.
 OXA-23-like_QJG71265.1 A. b.
 OXA-23-like_QJG74213.1 A. b.
 OXA-23-like_QJG81833.1 A. b.
 OXA-23-like_QJG84680.1 A. b.
 OXA-23-like_QJG89564.1 A. b.
 OXA-23-like_QJG89584.1 A. b.
 OXA-23-like_QJG90447.1 A. b.
 OXA-23-like_QJG93290.1 A. b.
 OXA-23-like_ADX93021.1 A. b.
 OXA-23-like_AXG83856.1 A. b.
 OXA-23-like_AML68547.1 A. b.
 OXA-23-like_ARG03241.1 A. b.
 OXA-23-like_AOX84133.1 A. b.
 OXA-23-like_AOX82595.1 A. b.
 OXA-23-like_AOX75920.1 A. b.
 OXA-23-like_AOX75888.1 A. b.

[illegible]

OXA-20-like subfamily

OXA-23-like_AOX72443.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AOX68171.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AMC14310.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AMC14301.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ALY00722.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ALX98871.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AKA30333.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AGQ10499.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AGQ05635.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ACJ39972.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QKK76748.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QKK76707.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QKK76393.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QFX72557.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QFZ56693.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AYC00513.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AYC00505.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ARG39357.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ARG23739.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ARG23713.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ARG03186.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AEP06450.2 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AML75286.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AML75277.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AML71526.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AML69469.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AML6436.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AML65160.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AML65128.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AMN00602.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AMN00587.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AMN00578.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AMN00569.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QJF37605.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QJF33717.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QJH05102.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QJH23846.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QCH35083.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QAT07029.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QAS99734.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AVE56824.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AVE44374.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ATR89604.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ARG29802.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_APF45746.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_APQ95067.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_APQ87413.1 A.b.	.....	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ATR88802.1 A.b.	MSYLFLSCTE.....	..KYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_ATR88943.1 A.b.	MSYLFLSCTE.....	..KYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_SBS23848.1 A.b.	MSYLFLSCTELFSIDLVPK	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_AOP62462.1 A.b.	MSYLFLSCTELFSIDLVPK	MNKYFTCYVVASLFLSGCTVQHNLINETPS	QIVQGHNQVIH
4JF4_Beta-lactamase	.....	.....	.....
OXA-23-like_QCP18237.1 A.b.	.....	.....MWLFFF..LFGCTVQHNLINETPS	QIVQGHNQVIH
OXA-23-like_QRN19109.1 A.b.	.....	.....MWLFFF..LFGCTVQHNLINETPS	QIVQGHNQVIH
acc			

OXA-23-like QQE03160.1 1 A. b.
OXA-23-like QQE03411.1 1 A. b.
OXA-23-like QQP99609.1 1 A. b.
OXA-23-like QQP99362.1 1 A. b.
OXA-23-like QQP95815.1 1 A. b.
OXA-23-like QQP95566.1 1 A. b.
OXA-23-like QQP93073.1 1 A. b.
OXA-23-like QQP92824.1 1 A. b.
OXA-23-like QQB67579.1 1 A. b.
OXA-23-like QQB65684.1 1 A. b.
OXA-23-like QP003745.1 1 A. b.
OXA-23-like QP000239.1 1 A. b.
OXA-23-like QLG80230.1 1 A. b.
OXA-23-like QLA71954.1 1 A. b.
OXA-23-like QJP32450.1 1 A. b.
OXA-23-like QJH23301.1 1 A. b.
OXA-23-like QJH19267.1 1 A. b.
OXA-23-like QJH16482.1 1 A. b.
OXA-23-like QJH15745.1 1 A. b.
OXA-23-like QJH15717.1 1 A. b.
OXA-23-like QJH08361.1 1 A. b.
OXA-23-like QJH12331.1 1 A. b.
OXA-23-like QJH05456.1 1 A. b.
OXA-23-like QJH007115.1 1 A. b.
OXA-23-like QJG95773.1 1 A. b.
OXA-23-like QJG96932.1 1 A. b.
OXA-23-like QJG96957.1 1 A. b.
OXA-23-like QJH00689.1 1 A. b.
OXA-23-like AOX88011.1 1 A. b.
OXA-23-like AOX91849.1 1 A. b.
OXA-23-like AOX95708.1 1 A. b.
OXA-23-like APM50633.1 1 A. b.
OXA-23-like APM50651.1 1 A. b.
OXA-23-like AQU56756.1 1 A. b.
OXA-23-like AQU56788.1 1 A. b.
OXA-23-like ARF92486.1 1 A. b.
OXA-23-like ARF92497.1 1 A. b.
OXA-23-like ARF95290.1 1 A. b.
OXA-23-like ARF96125.1 1 A. b.
OXA-23-like ARG05487.1 1 A. b.
OXA-23-like ARG10150.1 1 A. b.
OXA-23-like ARG12999.1 1 A. b.
OXA-23-like ARG19192.1 1 A. b.
OXA-23-like ARG19219.1 1 A. b.
OXA-23-like ARG28873.1 1 A. b.
OXA-23-like ARG28898.1 1 A. b.
OXA-23-like ARG30155.1 1 A. b.
OXA-23-like ARG35250.1 1 A. b.
OXA-23-like ASF49900.1 1 A. b.
OXA-23-like AUG13479.1 1 A. b.
OXA-23-like AVN25815.1 1 A. b.
OXA-23-like AVN25876.1 1 A. b.
OXA-23-like AVN25910.1 1 A. b.
OXA-23-like AWW79127.1 1 A. b.
OXA-23-like AWW83877.1 1 A. b.
OXA-23-like AWW86703.1 1 A. b.
OXA-23-like AY888859.1 1 A. b.
OXA-23-like BAP68327.1 1 A. b.
OXA-23-like QAS95332.1 1 A. b.
OXA-23-like QAT02983.1 1 A. b.
OXA-23-like QBY15339.1 1 A. b.
OXA-23-like QCH32733.1 1 A. b.
OXA-23-like QCP17255.1 1 A. b.
OXA-23-like QCP24705.1 1 A. b.
OXA-23-like QCP27215.1 1 A. b.
OXA-23-like QCP29558.1 1 A. b.
OXA-23-like QCP40778.1 1 A. b.
OXA-23-like QCP43779.1 1 A. b.
OXA-23-like QCP44095.1 1 A. b.
OXA-23-like QCP47140.1 1 A. b.
OXA-23-like QCR88532.1 1 A. b.
OXA-23-like QDR92294.1 1 A. b.
OXA-23-like QDR95367.1 1 A. b.
OXA-23-like QEE57736.1 1 A. b.
OXA-23-like QEE57740.1 1 A. b.
OXA-23-like QEE57744.1 1 A. b.
OXA-23-like QEY29291.1 1 A. b.
OXA-23-like QEY29320.1 1 A. b.
OXA-23-like QEY29496.1 1 A. b.
OXA-23-like QIX29121.1 1 A. b.
OXA-23-like QIX32951.1 1 A. b.
OXA-23-like QIX36912.1 1 A. b.
OXA-23-like QIX40711.1 1 A. b.
OXA-23-like QIX44509.1 1 A. b.
OXA-23-like QJG69304.1 1 A. b.
OXA-23-like QJG70467.1 1 A. b.
OXA-23-like QJG70485.1 1 A. b.
OXA-23-like QJG71265.1 1 A. b.
OXA-23-like QJG74213.1 1 A. b.
OXA-23-like QJG81833.1 1 A. b.
OXA-23-like QJG84680.1 1 A. b.
OXA-23-like QJG89564.1 1 A. b.
OXA-23-like QJG89584.1 1 A. b.
OXA-23-like QJG90447.1 1 A. b.
OXA-23-like QJG93290.1 1 A. b.
OXA-23-like ADX93021.1 1 A. b.
OXA-23-like AXG83856.1 1 A. b.
OXA-23-like AML68547.1 1 A. b.
OXA-23-like ARG03241.1 1 A. b.
OXA-23-like AOX84133.1 1 A. b.
OXA-23-like AOX84295.1 1 A. b.
OXA-23-like AOX75920.1 1 A. b.
OXA-23-like AOX75888.1 1 A. b.

[illegible]

OXA-23-like subfamily

OXA-23-like_AOX72443.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AOX68171.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AMC14310.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AMC14301.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ALY00722.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ALX98871.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AKA30333.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AGQ10499.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AGQ05635.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ACJ39972.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QKK06748.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QKK76707.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QKK76393.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QFX72557.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QFZ56693.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AYC00513.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AYC00505.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ARG39357.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ARG23739.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ARG23713.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ARG03186.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AEP06450.2	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML75286.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML75277.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML71526.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML69469.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML66436.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML65160.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML65128.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AML60602.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AMN00587.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AMN00578.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AMN00569.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QJF37605.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QJF33717.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QJH05102.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QJH23846.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QCH35083.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QAT07029.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QAS99734.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AVE56824.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AVE44374.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ATR89604.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ARG29802.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_APF45746.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_APQ95067.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_APQ87413.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ATR88802.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_ATR88943.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_SBS23848.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_AOP62462.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
4JF4_Beta-lactamase		QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QCP18237.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
OXA-23-like_QRN19109.1	A.b.	QYFDEKNTSGVLVIQTDKKINLYGNALS	RANTEYVPA	STFK	LNALIGLENOKT	DINEIF
acc						

OXA-23-like subfamily

OXA-23-like_QQE03160_1.A.B.	η3		α3		α4		α5	
	110	120	130	140	150	160	170	180
OXA-23-like_QQE03160_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQE03411_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQP96609_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQP99362_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQP95815_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQP95566_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQP93073_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQP92824_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQB67579_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QQB65684_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_QP000239_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QLG80230_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QLA71954_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJP32450_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH23301_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH19267_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH16482_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH15745_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH15717_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH08361_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH12331_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH05456_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_QJG95773_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_QJG96957_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_QJH00689_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_AOX91849_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_APM50633_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_ARF92486_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_ARF92497_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_ARF95290_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_ARG05487_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_ARG10150_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_ARG12999_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_ARG19192_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_ARG19219_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
OXA-23-like_ARG28873_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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OXA-23-like_ARG30155_1.A.B.	KWKGEKRS	FTAWEKDMTLGEAMK	S	V	P	V	Y	Q
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family

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acc

OXA-23-like *QQE03160.1* A.b.

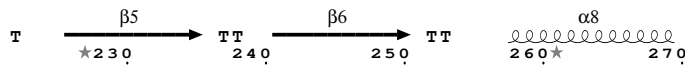
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OXA-23-like_QQE03411_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_QQP96609_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like_QQP93073_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like_QQB67579_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like_QJP32450_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like_QJH19267_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_QJH16482_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_QJH15745_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_QJH15717_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like_QJG95773_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_QJG96932_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_QJG96957_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_QJH00689_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_AOX88011_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like_AOX95708_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like_ARF92486_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_ARF92497_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_ARF95290_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_ARF96125_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_ARG05487_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_ARG01050_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
OXA-23-like_ARG12999_1.A.B.	D	N	F	W	L	V	G	P	L	K	V	T
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OXA-23-like subfamily

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OXA-23-like subfamily

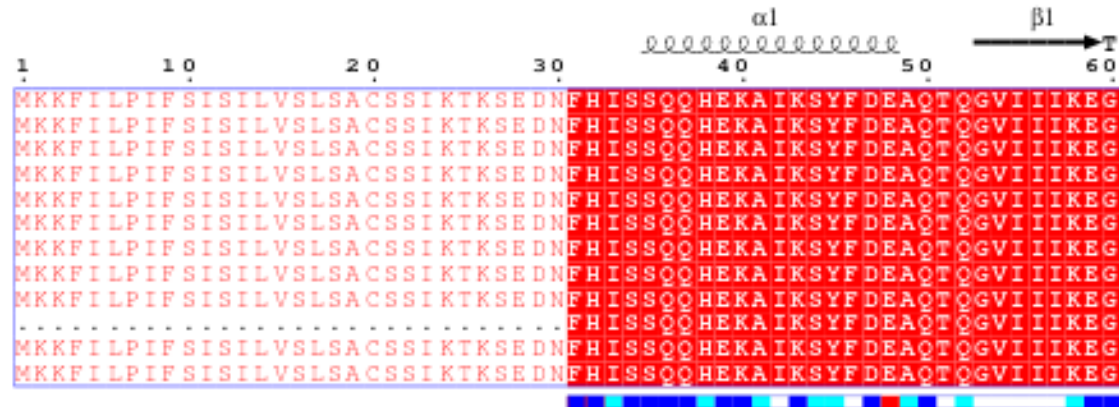
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OXA-23-like_AMC14310.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AMC14301.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
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OXA-23-like_ALX98871.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
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OXA-23-like_AGO05635.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
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OXA-23-like_QKK76707.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
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OXA-23-like_QFX72557.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QFZ56693.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AYC00513.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AYC00505.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ARG39357.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ARG23739.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ARG23713.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ARG03186.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AEP06450.2	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AML75286.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AML75277.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AML71526.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AML69469.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AML66436.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AML65160.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AML65128.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AMN00602.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AMN00587.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AMN00578.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AMN00569.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QJF37605.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QJF33717.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QJH05102.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QJH23846.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QCH35083.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QAT07029.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QAS99734.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AVE56824.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AVE44374.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ATR89604.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ARG29802.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_APF45746.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_APQ95067.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_APQ87413.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ATR88802.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_ATR88943.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_SBS23848.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_AOP62462.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
4JF4_Beta-lactamase		DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QCP18237.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
OXA-23-like_QRN19109.1	A.b.	DIKPQVGWLTGWVEQPDGKIVAFALNMEMRSEMPASIRNELLMKSLKQLNII
acc		

OXA-24-like subfamily

OXA-24-like_QAB42530.1_A.b.

OXA-24-like_QAB42530.1_A.b.
OXA-24-like_GRN23785.1_A.b.
OXA-24-like_GRN23770.1_A.b.
OXA-24-like_GER77259.1_A.b.
OXA-24-like_QBA07845.1_A.b.
OXA-24-like_QBA07837.1_A.b.
OXA-24-like_AXX58331.1_A.b.
OXA-24-like_AXX50759.1_A.b.
OXA-24-like_AXX43427.1_A.b.
4WM9_1_Beta-lactamase
OXA-24-like_AWO18633.1_A.b.
OXA-24-like_QLB37632.1_A.b.

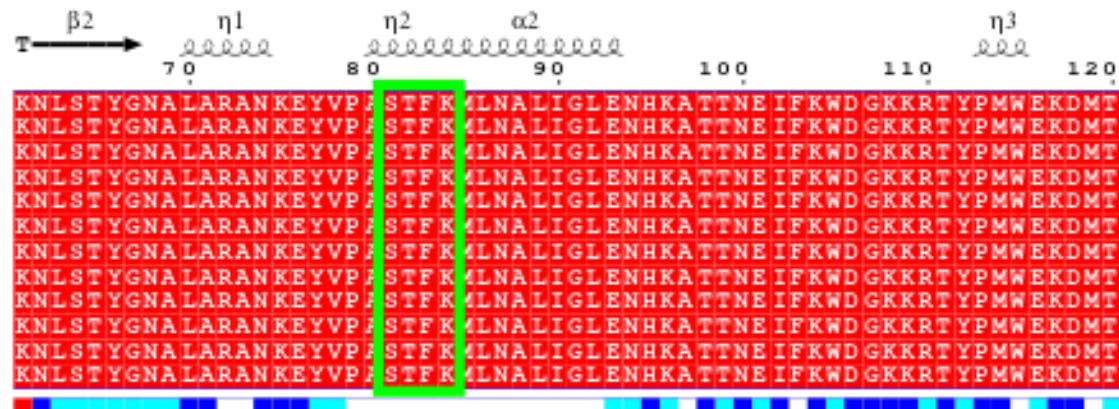
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OXA-24-like_QAB42530.1_A.b.

OXA-24-like_QAB42530.1_A.b.
OXA-24-like_GRN23785.1_A.b.
OXA-24-like_GRN23770.1_A.b.
OXA-24-like_GER77259.1_A.b.
OXA-24-like_QBA07845.1_A.b.
OXA-24-like_QBA07837.1_A.b.
OXA-24-like_AXX58331.1_A.b.
OXA-24-like_AXX50759.1_A.b.
OXA-24-like_AXX43427.1_A.b.
4WM9_1_Beta-lactamase
OXA-24-like_AWO18633.1_A.b.
OXA-24-like_QLB37632.1_A.b.

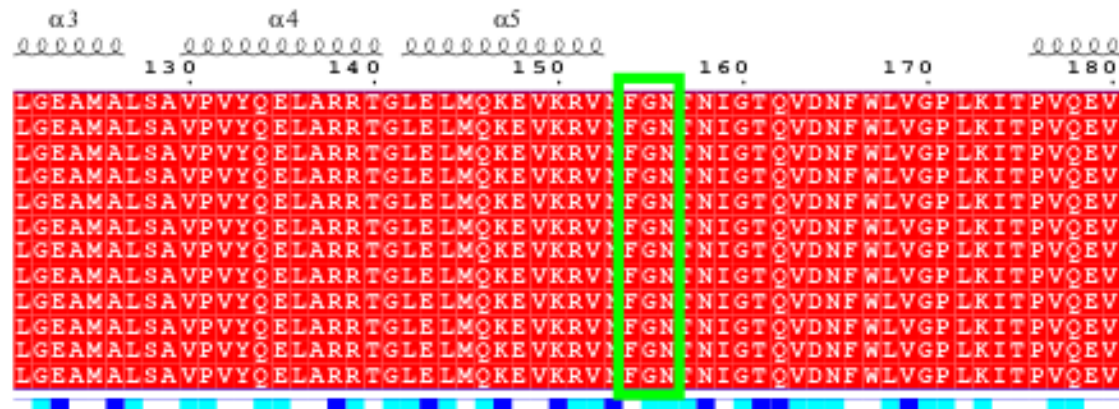
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OXA-24-like_QAB42530.1_A.b.

OXA-24-like_QAB42530.1_A.b.
OXA-24-like_GRN23785.1_A.b.
OXA-24-like_GRN23770.1_A.b.
OXA-24-like_GER77259.1_A.b.
OXA-24-like_QBA07845.1_A.b.
OXA-24-like_QBA07837.1_A.b.
OXA-24-like_AXX58331.1_A.b.
OXA-24-like_AXX50759.1_A.b.
OXA-24-like_AXX43427.1_A.b.
4WM9_1_Beta-lactamase
OXA-24-like_AWO18633.1_A.b.
OXA-24-like_QLB37632.1_A.b.

acc



alpha6

alpha7

beta3

beta4

beta5

OXA-24-like_QAB42530.1_A.b. 

OXA-24-like_QAB42530.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_QRN23785.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_QRN23770.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_QER77259.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_QBA07845.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_QBA07837.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_AXX58331.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN


OXA-24-like_AXX50759.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

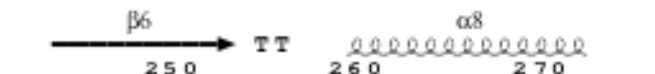
OXA-24-like_AXX43427.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

4WM9_1_Beta-lactamase NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_AWO18633.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

OXA-24-like_QLB37632.1_A.b. NFADD LAHNRLPFFKLETQE EVKKMLLIKEVNGSKIYK KSG WGM DVT PQVGWLTGWVEQAN

acc 

OXA-24-like_QAB42530.1_A.b. 

OXA-24-like_QAB42530.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_QRN23785.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_QRN23770.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_QER77259.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_QBA07845.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_QBA07837.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_AXX58331.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII


OXA-24-like_AXX50759.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_AXX43427.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

4WM9_1_Beta-lactamase GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_AWO18633.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

OXA-24-like_QLB37632.1_A.b. GKKIPFSLN LEMKEGMSG S IRNEITYKSLENLGII

acc 

OXA-24-like subfamily

OXA-33-like AWT34042.1 P.a.

acc

OXA-33-like AWT34042.1 P.a.

acc

OXA-33-like AWT34042.1 P.a.

acc

OXA-33-like AWT34042.1 P.a.

acc

OXA-33-like AWT34042.1 P.a.

acc

OXA-50-like subfamily

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	1	10		20	30	40	50	60
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OXA-50-like_QGQ00241.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QYK19268.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QQW06309.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QKV61463.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QPP39331.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QNE62162.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QLF44164.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QLF18710.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QEK46239.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QJA41232.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYZ58090.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QDR20381.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYW65966.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYZ45913.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYK26584.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ASM88695.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AUA80490.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AUB05120.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AVR86641.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AKS57147.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALS13221.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALY73377.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ANA70339.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_APB68390.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ARI94830.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
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OXA-50-like_ASA19039.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AUA74232.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QCC69374.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ATH06157.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZZ14888.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_VDK95206.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_VDL11569.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_VDL54838.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_VDL156340.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_VDL57163.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALZ29437.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AON10100.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AON16083.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
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OXA-50-like_AON40072.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AON46078.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AON52080.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ARG47835.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ASP05026.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ASP13070.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AVE36468.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AXL80491.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QDR05681.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QG376847.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
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OXA-50-like_QKR24763.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
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OXA-50-like_QP46609.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
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OXA-50-like_QKR77815.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AMA40693.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QKE99620.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYV23779.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ASA32790.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ASD07216.1_P.a.	MRPLFSTLLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_VDL31009.1_P.a.	MRPLFSTLLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_VDL53067.1_P.a.	MRPLFSTLLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYF72086.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYQ83944.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYR15974.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZN03541.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZN09267.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZN16304.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZN49449.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZN54830.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZN61319.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QP271933.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QQM09528.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AVN44779.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QKR65469.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYW63307.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QP265977.1_P.a.	MRPLFSALLLL	SGHAQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QHF92313.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AZM83163.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALY58484.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AHA19368.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALE51523.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALY50692.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALY86245.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ALZ22498.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AOP60986.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_ASD00726.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AXR31931.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_AYW76172.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QAS76324.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QDD38928.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QES85928.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QJH86618.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QKK88642.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QKR30875.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			
OXA-50-like_QKR36250.1_P.a.	MRPLFSALLLL	SGHTQASEWNDSRAVDKLF	GGAAGVK	TFVLYDVQRQRYV	GHDRERA			

OXA-50-like subfamily

[illegible]

4JF4 Beta-lactamase

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OXA-50-like subfamily

	60	70	80	90	100	110
	η2	α3	TT	η3	α4	
	η2	α3	TT	η3	α4	
OXA-50-like_QQW22444.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QGQ00241.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QQW19268.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QQW06309.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QQV61463.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QPP39331.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QNE62162.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QLF44164.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QLF18710.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QEK46239.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QJA41232.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYZ58090.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QDR20381.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYW69566.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYZ45913.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYK26584.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ASM88695.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AUA80490.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AUB05120.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AVR86641.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AXS75147.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALS13221.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALY73377.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ANA70339.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_APB68390.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ARI94830.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ARJ01367.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ASA19039.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AUA74232.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QCC69374.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ATH06157.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZZ14888.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_VDK95206.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_VDL11569.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_VDL54838.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_VDL56340.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_VDL57163.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALZ29437.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON10100.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON16083.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON22092.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON28079.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON34087.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON40072.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON46078.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON52080.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ARG47835.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ASP05026.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ASP13070.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AVE36468.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AXL80491.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QDR05681.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QGJ36847.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKG35875.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKR24763.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QQO64022.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QQD36200.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AON75377.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QDY03768.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QPP46609.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QIZ29678.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKR77815.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AMA40693.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKE99620.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AVZ37799.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ASA32790.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ASD07216.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_VDL31009.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_VDL53067.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYF72086.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYQ83944.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYR15974.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZN03541.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZN09267.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZN16304.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZN49449.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZN54830.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZN61319.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QPZ71933.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QQM09528.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AVN44779.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKR65469.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYW63307.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QPZ65977.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QHF92313.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AZM83163.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALY58484.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AHA19368.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALE51523.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALY50692.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALY86245.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ALZ22498.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AOP60986.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_ASD00726.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AXR31931.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_AYW76172.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QAS76324.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QDD38928.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QES85928.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QJH86618.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKR88642.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKR30875.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF
OXA-50-like_QKR36250.1.P.a.	TRFVPA	STYK	ANSLIG	STGAVRSAD	EVLPGG	KPQRF

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OXA-50-like subfamily

OXA-50-like_QK542441.1 P.a.
OXA-50-like_QPP27676.1 P.a.
OXA-50-like_QPV54155.1 P.a.
OXA-50-like_QPZ84995.1 P.a.
OXA-50-like_ANP59968.1 P.a.
OXA-50-like_QGQ06905.1 P.a.
OXA-50-like_AXR14368.1 P.a.
OXA-50-like_ALP57413.1 P.a.
OXA-50-like_QKR41777.1 P.a.
OXA-50-like_ALY36156.1 P.a.
OXA-50-like_ALY52550.1 P.a.
OXA-50-like_ANT07822.1 P.a.
OXA-50-like_AWS88163.1 P.a.
OXA-50-like_AXM29478.1 P.a.
OXA-50-like_QCB08854.1 P.a.
OXA-50-like_QDD49249.1 P.a.
OXA-50-like_QDR11871.1 P.a.
OXA-50-like_QKP84324.1 P.a.
OXA-50-like_QKR71283.1 P.a.
OXA-50-like_QLA53973.1 P.a.
OXA-50-like_QLD71620.1 P.a.
OXA-50-like_QLD73935.1 P.a.
OXA-50-like_QLD78684.1 P.a.
OXA-50-like_QLF37576.1 P.a.
OXA-50-like_AWT32452.1 P.a.
OXA-50-like_AXZ92060.1 P.a.
OXA-50-like_QIT197759.1 P.a.
OXA-50-like_QOB13519.1 P.a.
OXA-50-like_QPN23057.1 P.a.
OXA-50-like_QDR14302.1 P.a.
OXA-50-like_ALZ16475.1 P.a.
OXA-50-like_QKF04533.1 P.a.
OXA-50-like_QNO22317.1 P.a.
OXA-50-like_QQW12925.1 P.a.
OXA-50-like_AY281447.1 P.a.
OXA-50-like_QK116662.1 P.a.
OXA-50-like_QQW00026.1 P.a.
OXA-50-like_ALV75159.1 P.a.
OXA-50-like_ALY89963.1 P.a.
OXA-50-like_ALY96872.1 P.a.
OXA-50-like_AMX88486.1 P.a.
OXA-50-like_ARC82831.1 P.a.
OXA-50-like_ASD14027.1 P.a.
OXA-50-like_AY275988.1 P.a.
OXA-50-like_QF261919.1 P.a.
OXA-50-like_QKF90385.1 P.a.
OXA-50-like_QKR47436.1 P.a.
OXA-50-like_QKR53224.1 P.a.
OXA-50-like_QKR59118.1 P.a.
OXA-50-like_QLF25267.1 P.a.
OXA-50-like_QPP21637.1 P.a.
OXA-50-like_QQA85373.1 P.a.
OXA-50-like_QRG72678.1 P.a.
OXA-50-like_AYY40220.1 P.a.
OXA-50-like_ALZ28576.1 P.a.
OXA-50-like_QNQ04301.1 P.a.
OXA-50-like_ALZ94285.1 P.a.
OXA-50-like_AMU04106.1 P.a.
OXA-50-like_AOT37986.1 P.a.
OXA-50-like_ASD20357.1 P.a.
OXA-50-like_AVZ22774.1 P.a.
OXA-50-like_AXC20842.1 P.a.
OXA-50-like_AYN84711.1 P.a.
OXA-50-like_CRZ33166.1 P.a.
OXA-50-like_QBF65101.1 P.a.
OXA-50-like_QEF81401.1 P.a.
OXA-50-like_QEF87414.1 P.a.
OXA-50-like_QEF93418.1 P.a.
OXA-50-like_QGM44151.1 P.a.
OXA-50-like_QHT63098.1 P.a.
OXA-50-like_QIB85902.1 P.a.
OXA-50-like_QKR06746.1 P.a.
OXA-50-like_QKR13035.1 P.a.
OXA-50-like_QKR18855.1 P.a.
OXA-50-like_QKR83750.1 P.a.
OXA-50-like_QLF31591.1 P.a.
OXA-50-like_VDL04843.1 P.a.
OXA-50-like_QCP80115.1 P.a.
OXA-50-like_QEK88934.1 P.a.
OXA-50-like_ALU47404.1 P.a.
OXA-50-like_APC75958.1 P.a.
OXA-50-like_QPZ59753.1 P.a.
OXA-50-like_QFZ03142.1 P.a.
OXA-50-like_QGG01915.1 P.a.
OXA-50-like_AUA86524.1 P.a.
OXA-50-like_AUA92615.1 P.a.
4JF4 Beta-lactamase

acc

OXA-50-like subfamily

	180	190	200	210	220	230
	α8	β3	β4	β5	β6	β7
	α8	β3	β4	β5	β6	β7
OXA-50-like_QQW22444.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QGQ00241.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QQW19268.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QQW06309.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QQV61463.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QPP39331.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QNE62162.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QLF44164.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QLF18710.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QEK46239.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QJA1232.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYZ58090.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QDR20381.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYW69566.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYZ45913.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYK26584.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ASM88695.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AUA80490.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AUB05120.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AVR86641.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AXS75147.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALS13221.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALY73377.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ANA70339.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_APB68390.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ARI94830.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ARJ01367.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ASA19039.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AUA74232.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QCC69374.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ATH06157.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZZ14888.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_VDK95206.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_VDL11569.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_VDL54838.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_VDL56340.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_VDL57163.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALZ29437.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON10100.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON16083.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON22092.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON28079.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON34087.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON40072.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON46078.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON52080.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ARG47835.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ASP05026.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ASP13070.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AVE36468.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AXL80491.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QDR05681.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QGJ36847.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QRG35875.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QXR24763.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QQO64022.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QQD36200.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AON75377.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QDY03768.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QPP46609.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QTZ29678.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QXR77815.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AMA40693.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QKE99620.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYV37799.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ASA32790.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ASD07216.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_VDL31009.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_VDL53067.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYF72086.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYQ83944.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYR15974.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZN03541.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZN09267.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZN16304.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZN49449.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZN54830.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZN61319.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QPZ71933.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QQM09528.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AVN44779.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QKR65469.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYW63307.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QPZ65977.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QHF92313.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AZM83163.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALY58484.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AHA19368.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALE51523.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALY50692.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALY86245.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ALZ22498.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AOP60986.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_ASD00726.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AXR31931.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_AYW76172.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QAS76324.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QDD38928.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QES85928.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QJH86618.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QKR88642.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QKR30875.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG
OXA-50-like_QKR36250.1_P.a.	PAPVQSTV	RAMTLL	ESGPGW	ELHGGT	GCFC	DTPELG

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4JF4_Beta-lactamase

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OXA-50-like subfamily

		$\alpha 9$	
	0000000000000000		
240	250	260	
OXA-50-like_QQW22444.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QGQ00241.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QQW19268.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QQW06309.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QQV61463.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QPP39331.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QNE62162.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QLF44164.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QLF18710.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QEK46239.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QJA41232.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYZ58090.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QDR20381.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYW69566.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYZ45913.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYK26584.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ASM88695.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AUA80490.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AUB05120.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AVR86641.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AXS75147.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALS13221.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALY73377.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ANA70339.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_APB68390.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ARI94830.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ARJ01367.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ASA19039.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AUA74232.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QCC69374.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ATH06157.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZZ14888.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_VDK95206.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_VDL11569.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_VDL54838.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_VDL56340.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_VDL57163.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALZ29437.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON10100.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON16083.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON22092.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON28079.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON34087.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON40072.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON46078.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON52080.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ARG47835.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ASP05026.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ASP13070.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AVE36468.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AXL80491.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QDR05681.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QGJ36847.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QKG35875.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QXR24763.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QOQ64022.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QQD36200.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AON75377.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QDY03768.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QPP46609.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QTZ29678.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QKR77815.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AMA40693.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QKE99620.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AVZ37799.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ASA32790.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ASD07216.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_VDL31009.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_VDL53067.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYF72086.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYQ83944.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYR15974.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZN03541.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZN09267.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZN16304.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZN49449.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZN54830.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZN61319.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QPZ71933.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QQM09528.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AVN44779.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QKR65469.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYW63307.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QPZ65977.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QHF92313.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AZM83163.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALY58484.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AHA19368.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALE51523.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALY50692.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALY86245.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ALZ22498.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AOP60986.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_ASD00726.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AXR31931.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_AYW76172.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QAS76324.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QDD38928.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QES85928.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QJH86618.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QKK88642.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QKR30875.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP
OXA-50-like_QKR36250.1_P.a.	GGEADIGKRV	ELGKASL	KALGILP

OXA-50-like subfamily

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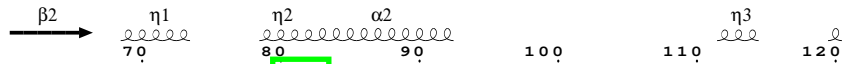
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OXA-51-like subfamily

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4ZDX_Beta-lactamase



2DZX Beta-Lactamase
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 OXA-51-like QFZ58831.1 A.b.
 OXA-51-like QAS47153.1 A.b.
 OXA-51-like QAS43533.1 A.b.
 OXA-51-like QNV16375.1 A.b.
 OXA-51-like QNV20321.1 A.b.
 OXA-51-like QNV24005.1 A.b.
 OXA-51-like QNV27835.1 A.b.
 OXA-51-like QNV31585.1 A.b.
 OXA-51-like QPN98293.1 A.b.
 OXA-51-like QPO01798.1 A.b.
 OXA-51-like QOD93954.1 A.b.
 OXA-51-like QOD94685.1 A.b.
 OXA-51-like QOD98482.1 A.b.
 OXA-51-like QOE02276.1 A.b.
 OXA-51-like SBS22256.1 A.b.
 OXA-51-like AEP06182.1 A.b.
 OXA-51-like QJG23678.1 A.b.
 OXA-51-like QLI36478.1 A.b.
 OXA-51-like QNT82744.1 A.b.
 OXA-51-like APX50552.1 A.b.
 OXA-51-like QER37219.1 A.b.
 OXA-51-like QLF06531.1 A.b.
 OXA-51-like AQG06390.1 A.b.
 OXA-51-like QCP28577.1 A.b.
 OXA-51-like AIY37715.2 A.b.
 OXA-51-like APO58838.2 A.b.
 OXA-51-like AXK43643.1 A.b.
 OXA-51-like QBY14110.1 A.b.
 OXA-51-like QCP23393.1 A.b.
 OXA-51-like QJG76604.1 A.b.
 OXA-51-like QJG80512.1 A.b.
 OXA-51-like QJG83258.1 A.b.
 OXA-51-like QJF37521.1 A.b.
 OXA-51-like ARG37991.1 A.b.
 OXA-51-like ANM01331.1 A.b.
 OXA-51-like ARN31023.1 A.b.
 OXA-51-like QDM66466.1 A.b.
 OXA-51-like QEY04089.1 A.b.
 OXA-51-like QFQ05250.1 A.b.
 OXA-51-like QGX51318.1 A.b.
 OXA-51-like QPP12630.1 A.b.
 OXA-51-like QNT83403.1 A.b.
 OXA-51-like QJF14787.1 A.b.
 OXA-51-like QJF32440.1 A.b.
 OXA-51-like QJF35790.1 A.b.
 OXA-51-like QLF10281.1 A.b.
 OXA-51-like AYY52683.1 A.b.
 OXA-51-like SCD15761.1 A.b.
 OXA-51-like BAP66909.1 A.b.
 OXA-51-like QCP30880.1 A.b.
 OXA-51-like QER75560.1 A.b.
 OXA-51-like QCO80718.1 A.b.
 OXA-51-like QCD18717.1 A.b.
 OXA-51-like QCD22484.1 A.b.
 OXA-51-like QRN22730.1 A.b.
 OXA-51-like QRN17816.1 A.b.
 OXA-51-like QRN09142.1 A.b.
 OXA-51-like QRN14361.1 A.b.
 OXA-51-like AHB91645.1 A.b.
 OXA-51-like QET176099.1 A.b.
 OXA-51-like QBY88347.1 A.b.
 OXA-51-like ANC35117.1 A.b.
 OXA-51-like APJ19826.1 A.b.
 OXA-51-like AVE55122.1 A.b.
 OXA-51-like AVO92126.1 A.b.
 OXA-51-like AXG84775.1 A.b.
 OXA-51-like AXH40472.1 A.b.
 OXA-51-like AYY89494.1 A.b.
 OXA-51-like QFH45392.1 A.b.
 OXA-51-like QFY69235.1 A.b.
 OXA-51-like QJF27678.1 A.b.
 OXA-51-like AML74598.1 A.b.
 OXA-51-like AOP26964.1 A.b.
 OXA-51-like AFU38004.1 A.b.
 OXA-51-like AML67359.1 A.b.
 OXA-51-like AML71041.1 A.b.
 OXA-51-like AML63873.1 A.b.
 OXA-51-like QKX74898.1 A.b.
 OXA-51-like QFX70271.1 A.b.
 OXA-51-like QEK67468.1 A.b.
 OXA-51-like QEK74707.1 A.b.
 OXA-51-like QEK71081.1 A.b.
 OXA-51-like QFZ58831.1 A.b.
 OXA-51-like QAS47153.1 A.b.
 OXA-51-like QAS43533.1 A.b.
 OXA-51-like QNV16375.1 A.b.
 OXA-51-like QNV20321.1 A.b.
 OXA-51-like QNV24005.1 A.b.
 OXA-51-like QNV27835.1 A.b.
 OXA-51-like QNV31585.1 A.b.
 OXA-51-like QPN98293.1 A.b.
 OXA-51-like QPO01798.1 A.b.
 OXA-51-like QOD93954.1 A.b.
 OXA-51-like QOD94685.1 A.b.
 OXA-51-like QOD98482.1 A.b.
 OXA-51-like QOE02276.1 A.b.
 OXA-51-like SBS22256.1 A.b.
 OXA-

OXA-51-like subfamily

OXA-51-like_ARGO2295.1_A.b.
OXA-51-like_ARG20110.1_A.b.
OXA-51-like_AYCO1674.1_A.b.
OXA-51-like_ATU49292.1_A.b.
OXA-51-like_ATU52990.1_A.b.
OXA-51-like_ATU56628.1_A.b.
OXA-51-like_AZK38077.1_A.b.
OXA-51-like_AZK41733.1_A.b.
OXA-51-like_QAS39909.1_A.b.
OXA-51-like_QAS33473.1_A.b.
OXA-51-like_ACC56872.1_A.b.
OXA-51-like_ADX91666.1_A.b.
OXA-51-like_ADX92178.1_A.b.
OXA-51-like_AGQ10228.1_A.b.
OXA-51-like_ALX99780.1_A.b.
OXA-51-like_AMC15222.1_A.b.
OXA-51-like_ANB88975.1_A.b.
OXA-51-like_AOX69607.1_A.b.
OXA-51-like_AOX73369.1_A.b.
OXA-51-like_AOX77482.1_A.b.
OXA-51-like_AOX81661.1_A.b.
OXA-51-like_AOX85074.1_A.b.
OXA-51-like_AOX88942.1_A.b.
OXA-51-like_AOX92779.1_A.b.
OXA-51-like_AOX96637.1_A.b.
OXA-51-like_APF43967.1_A.b.
OXA-51-like_APJ23521.1_A.b.
OXA-51-like_APM48724.1_A.b.
OXA-51-like_APQ85553.1_A.b.
OXA-51-like_APQ93188.1_A.b.
OXA-51-like_AQU55455.1_A.b.
OXA-51-like_ARF91818.1_A.b.
OXA-51-like_ARF95229.1_A.b.
OXA-51-like_ARG04169.1_A.b.
OXA-51-like_ARG09260.1_A.b.
OXA-51-like_ARG14122.1_A.b.
OXA-51-like_ARG20812.1_A.b.
OXA-51-like_ARG26815.1_A.b.
OXA-51-like_ATR88137.1_A.b.
OXA-51-like_ATU22923.1_A.b.
OXA-51-like_AUG11400.1_A.b.
OXA-51-like_AVE45033.1_A.b.
OXA-51-like_AVE90526.1_A.b.
OXA-51-like_AVO88307.1_A.b.
OXA-51-like_AWO15631.1_A.b.
OXA-51-like_AWW77770.1_A.b.
OXA-51-like_AWW85353.1_A.b.
OXA-51-like_AXW91373.1_A.b.
OXA-51-like_XXX48901.1_A.b.
OXA-51-like_XXX55862.1_A.b.
OXA-51-like_QBA07478.1_A.b.
OXA-51-like_QBB77223.1_A.b.
OXA-51-like_QCH33275.1_A.b.
OXA-51-like_QCP15970.1_A.b.
OXA-51-like_QCP19079.1_A.b.
OXA-51-like_QCF45479.1_A.b.
OXA-51-like_QDR93660.1_A.b.
OXA-51-like_QEY27958.1_A.b.
OXA-51-like_QIX30833.1_A.b.
OXA-51-like_QIX34674.1_A.b.
OXA-51-like_QIX38631.1_A.b.
OXA-51-like_QIX42205.1_A.b.
OXA-51-like_QIX46166.1_A.b.
OXA-51-like_QJG69125.1_A.b.
OXA-51-like_QJG72958.1_A.b.
OXA-51-like_QJG88231.1_A.b.
OXA-51-like_QJG91989.1_A.b.
OXA-51-like_QJG95953.1_A.b.
OXA-51-like_QJG99403.1_A.b.
OXA-51-like_QJH07093.1_A.b.
OXA-51-like_QJH10219.1_A.b.
OXA-51-like_QJH14483.1_A.b.
OXA-51-like_QJH17776.1_A.b.
OXA-51-like_QJP31173.1_A.b.
OXA-51-like_QLA74304.1_A.b.
OXA-51-like_QNV12531.1_A.b.
OXA-51-like_QAS93855.1_A.b.
OXA-51-like_QAT01315.1_A.b.
OXA-51-like_QAS97806.1_A.b.
OXA-51-like_QAT04873.1_A.b.
OXA-51-like_QEE57116.1_A.b.
OXA-51-like_ADX03652.1_A.b.
OXA-51-like_QOC082814.1_A.b.
OXA-51-like_AJF81571.1_A.b.
OXA-51-like_ATP87403.1_A.b.
OXA-51-like_AKA32028.1_A.b.
OXA-51-like_ALJ88113.1_A.b.
OXA-51-like_ARG31555.1_A.b.
OXA-51-like_ASF77094.1_A.b.
OXA-51-like_AVN14185.1_A.b.
OXA-51-like_AVN25165.1_A.b.
OXA-51-like_AXB14667.1_A.b.
OXA-51-like_QLG79253.1_A.b.
OXA-51-like_QQB68144.1_A.b.
OXA-51-like_SQT55469.1_A.b.
OXA-51-like_QJH03197.1_A.b.
OXA-51-like_QHB90233.1_A.b.
OXA-51-like_BBR73296.1_A.b.

OXA-51-like subfamily

4ZDX_Beta-lactamase	α3										α4										α5										α6										α7																		
	00000										0000000000										0000000000										0000										000000																		
	130										140										150										160										170																		
4ZDX_Beta-lactamase	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_QLB35675.1.A.b.	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_AUT37227.1.A.b.	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_QJF39460.1.A.b.	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_QLI40100.1.A.b.	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_ARG36573.1.A.b.	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_AS071619.1.A.b.	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_AVF34890.1.A.b.	G	D	A	M	K	A	S	A	I	P	V	Y	Q	D	L	A	R	R	I	G	L	E	L	M	S	K	E	V	K	R	V	G	Y	G	N	A	D	I	G	T	Q	V	D	N	F	W	L	V	G	P	L	K	I	T	P	Q	E	A	O
OXA-51-like_QCR8																																																											

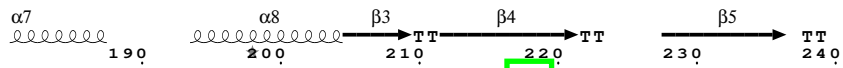
OXA-51-like subfamily

OXA-51-like ARG02295.1 A.b.
OXA-51-like ARG25110.1 A.b.
OXA-51-like AYC01674.1 A.b.
OXA-51-like ATU49292.1 A.b.
OXA-51-like ATU52990.1 A.b.
OXA-51-like ATU56628.1 A.b.
OXA-51-like AZK38077.1 A.b.
OXA-51-like AZK41733.1 A.b.
OXA-51-like QAS39909.1 A.b.
OXA-51-like QAS33473.1 A.b.
OXA-51-like ACC56872.1 A.b.
OXA-51-like ADX91666.1 A.b.
OXA-51-like ADX92178.1 A.b.
OXA-51-like AGL00228.1 A.b.
OXA-51-like ALX99780.1 A.b.
OXA-51-like ANM15222.1 A.b.
OXA-51-like ANB88975.1 A.b.
OXA-51-like AOX69607.1 A.b.
OXA-51-like AOX73369.1 A.b.
OXA-51-like AOX77482.1 A.b.
OXA-51-like AOX81661.1 A.b.
OXA-51-like AOX85074.1 A.b.
OXA-51-like AOX88942.1 A.b.
OXA-51-like AOX92779.1 A.b.
OXA-51-like AOX96637.1 A.b.
OXA-51-like APF43961.1 A.b.
OXA-51-like APJ23527.1 A.b.
OXA-51-like APM48724.1 A.b.
OXA-51-like APQ85553.1 A.b.
OXA-51-like APQ93188.1 A.b.
OXA-51-like AQU55545.1 A.b.
OXA-51-like ARF91818.1 A.b.
OXA-51-like ARF95229.1 A.b.
OXA-51-like ARG04169.1 A.b.
OXA-51-like ARG09260.1 A.b.
OXA-51-like ARG14122.1 A.b.
OXA-51-like ARG20812.1 A.b.
OXA-51-like ARG26815.1 A.b.
OXA-51-like ATR88137.1 A.b.
OXA-51-like ATU22923.1 A.b.
OXA-51-like AUG11400.1 A.b.
OXA-51-like AVE45033.1 A.b.
OXA-51-like AVE90526.1 A.b.
OXA-51-like AV088307.1 A.b.
OXA-51-like AWO15631.1 A.b.
OXA-51-like AWW77770.1 A.b.
OXA-51-like AWW85353.1 A.b.
OXA-51-like AXW91373.1 A.b.
OXA-51-like AXX48901.1 A.b.
OXA-51-like AXX55862.1 A.b.
OXA-51-like QBA07478.1 A.b.
OXA-51-like QBB77223.1 A.b.
OXA-51-like QCH33275.1 A.b.
OXA-51-like QCP15970.1 A.b.
OXA-51-like QCP19079.1 A.b.
OXA-51-like QCP45479.1 A.b.
OXA-51-like QDR93660.1 A.b.
OXA-51-like QEY27958.1 A.b.
OXA-51-like QIX30833.1 A.b.
OXA-51-like QIX34674.1 A.b.
OXA-51-like QIX38631.1 A.b.
OXA-51-like QIX42205.1 A.b.
OXA-51-like QIX46166.1 A.b.
OXA-51-like QJG669125.1 A.b.
OXA-51-like QJG72958.1 A.b.
OXA-51-like QJG88231.1 A.b.
OXA-51-like QJG91989.1 A.b.
OXA-51-like QJG95593.1 A.b.
OXA-51-like QJG99403.1 A.b.
OXA-51-like QJH07093.1 A.b.
OXA-51-like QJH10219.1 A.b.
OXA-51-like QJH14483.1 A.b.
OXA-51-like QJH17776.1 A.b.
OXA-51-like QJP31173.1 A.b.
OXA-51-like QLA73304.1 A.b.
OXA-51-like QNV12531.1 A.b.
OXA-51-like QAS93855.1 A.b.
OXA-51-like QAT70131.1 A.b.
OXA-51-like QAS97806.1 A.b.
OXA-51-like QAT04873.1 A.b.
OXA-51-like QEE57116.1 A.b.
OXA-51-like ADX03652.1 A.b.
OXA-51-like QC082814.1 A.b.
OXA-51-like AJP81571.1 A.b.
OXA-51-like ATP87403.1 A.b.
OXA-51-like AKK32028.1 A.b.
OXA-51-like ALJ88113.1 A.b.
OXA-51-like ARG31555.1 A.b.
OXA-51-like ASF77094.1 A.b.
OXA-51-like AVN14185.1 A.b.
OXA-51-like AVN25165.1 A.b.
OXA-51-like AXB14467.1 A.b.
OXA-51-like QLG79253.1 A.b.
OXA-51-like QQB68144.1 A.b.
OXA-51-like SQ155469.1 A.b.
OXA-51-like QJH03197.1 A.b.
OXA-51-like QHB90233.1 A.b.
OXA-51-like BBR73296.1 A.b.

[illegible]

acc

4ZDX_Beta-lactamase



4ZDX_Beta-lactamase

2ZDX Beta-Lactamase

OXA-51-like_QLB35675.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AUT37227.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QLF39460.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QJ40100.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_ARG36573.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AS071619.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AVF34890.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QCR89674.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QJH20957.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QMS82274.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QCT16238.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AVF07049.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AYF08644.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QBR77846.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QBR79997.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_ABO11944.2	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AGH35408.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_BBT49379.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QAB40708.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QDQ60454.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QYQ23678.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QLI36478.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QNT82744.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_APX50552.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QER37219.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QLF06531.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AQ066390.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QC28577.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AY37715.2	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_API058838.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_AXX43643.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QBY14110.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QCP23393.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QJG76604.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QUG80512.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QJG83258.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_QJF37521.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_ARG37991.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_ANN01331.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	QG
OXA-51-like_ARN31023.1	A.b.	FAYKLANKTLPFS	PKVD	EVQSM	LFIEEKNNGNKIYAKSGW	DVD	DPQVGWLTG	WVVP	

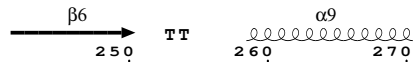
OXA-51-like subfamily

OXA-51-like ARG02295.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARG25110.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AYCO1674.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ATU49292.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ATU52990.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ATU55628.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AZK38077.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AZK41733.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like QAS39909.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like QAS33473.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ACC56872.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ADX91666.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ADX92178.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AGQ10228.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ALX99780.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ALX51222.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ANB88975.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX69607.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX73369.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX77482.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX81661.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX85074.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX88942.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX92779.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AOX96637.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like APF43961.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like APJ23527.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like APM48724.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like APQ85553.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like APQ93188.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AQU55455.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARF91818.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARF95229.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARG04169.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARG09260.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARG14122.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARG20812.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ARG26815.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ATR88137.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like ATU22923.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA	KSG	WGVDVN	POVGWLTG	WVVPQG
OXA-51-like AUG11400.1	A.b.	FAYKLANKTLPFS	QKVD	DEVQSM	LFIEEKNGNKIYA</				

acc

OXA-51-like subfamily

4ZDX_Beta-lactamase



4ZDX_Beta-lactamase

OXA-51-like QLB35675.1 1 A b
OXA-51-like AUT37227 1 A b
OXA-51-like QJF39460 1 A b
OXA-51-like QL140100 1 A b
OXA-51-like ARG36573 1 A b
OXA-51-like ASO71619 1 A b
OXA-51-like AVP34890 1 A b
OXA-51-like QCR89674 1 A b
OXA-51-like QJH20957 1 A b
OXA-51-like QMS82274 1 A b
OXA-51-like QCT16238 1 A b
OXA-51-like AVF07049 1 A b
OXA-51-like AVF08644 1 A b
OXA-51-like QBR77846 1 A b
OXA-51-like QBR79997 1 A b
OXA-51-like ABO11944 2 A b
OXA-51-like ABG35408 1 A b
OXA-51-like BBT49379 1 A b
OXA-51-like QAB40708 1 A b
OXA-51-like QDQ60454 1 A b
OXA-51-like QKY23678 1 A b
OXA-51-like QLI36478 1 A b
OXA-51-like QNT82744 1 A b
OXA-51-like APX50552 1 A b
OXA-51-like QER37219 1 A b
OXA-51-like QLF06531 1 A b
OXA-51-like AGQ06390 1 A b
OXA-51-like QCP28577 1 A b
OXA-51-like AIY37715 2 A b
OXA-51-like APO58833 1 A b
OXA-51-like APX48643 1 A b
OXA-51-like QBY14110 1 A b
OXA-51-like QCP23393 1 A b
OXA-51-like QJG76604 1 A b
OXA-51-like QJG80512 1 A b
OXA-51-like QJG83258 1 A b
OXA-51-like QJF37521 1 A b
OXA-51-like ARG37991 1 A b
OXA-51-like ANM01331 1 A b
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OXA-51-like QDM66466 1 A b
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OXA-51-like QFQ05250 1 A b
OXA-51-like QGX51318 1 A b
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OXA-51-like QPF14787 1 A b
OXA-51-like QJF32440 1 A b
OXA-51-like QJF35790 1 A b
OXA-51-like QLF10281 1 A b
OXA-51-like AYY52683 1 A b
OXA-51-like SCD15761 1 A b
OXA-51-like BAP66909 1 A b
OXA-51-like QCP30880 1 A b
OXA-51-like QRF75560 1 A b
OXA-51-like QC080718 1 A b
OXA-51-like QCD18717 1 A b
OXA-51-like QCD22484 1 A b
OXA-51-like QRN22730 1 A b
OXA-51-like QRN17816 1 A b
OXA-51-like QRN09142 1 A b
OXA-51-like QRN14361 1 A b
OXA-51-like AHB91645 1 A b
OXA-51-like QE176099 1 A b
OXA-51-like QBY88347 1 A b
OXA-51-like ANC35117 1 A b
OXA-51-like APV19826 1 A b
OXA-51-like AVE55122 1 A b
OXA-51-like AV092126 1 A b
OXA-51-like AEG84775 1 A b
OXA-51-like AXX40472 1 A b
OXA-51-like AYY89494 1 A b
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OXA-51-like QFX70271 1 A b
OXA-51-like QE6K7468 1 A b
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OXA-51-like QFZ58831 1 A b
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OXA-51-like QAS43533 1 A b
OXA-51-like QNV16375 1 A b
OXA-51-like QNV20321 1 A b
OXA-51-like QNV24005 1 A b
OXA-51-like QNV27835 1 A b
OXA-51-like QNV31585 1 A b
OXA-51-like QPN98293 1 A b
OXA-51-like QPO01798 1 A b
OXA-51-like QDQ93954 1 A b
OXA-51-like QDQ94685 1 A b
OXA-51-like QDQ98482 1 A b
OXA-51-like QQB02276 1 A b
OXA-51-like SBS22256 1 A b
OXA-51-like AEP06182 1 A b

[illegible]

OXA-51-like subfamily

OXA-51-like_ARG02295.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARG25110.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AYC01674.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ATU49292.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ATU52990.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ATU56628.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AZK38077.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AZK41733.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QAS39909.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QAS33473.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ACC56872.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ADX91666.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ADX92178.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AQO10228.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ALX99780.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AMC15222.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ANB89875.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX69607.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX73369.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX77482.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX81661.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX85074.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX88942.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX92779.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AOX96637.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_APF43961.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_APJ23527.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_APM48724.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_APQ85553.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_APQ93188.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AQU55455.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARF91818.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARF95229.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARG04169.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARG09260.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARG14122.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARG20812.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ARG26815.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ATR88137.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_ATU22923.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AUG11400.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AVE45033.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AVE90526.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AVO88307.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AWO15631.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AWW77770.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AWW85353.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AXW91373.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AXX48901.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_AXX55862.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QBA07478.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QBB77223.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QCH33275.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QCP15970.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QCP19079.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QCP45479.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QDR93660.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QEY27958.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QIX30833.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QIX34674.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QIX38631.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QIX42205.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QTX46166.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QJG69125.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL
OXA-51-like_QJG72958.1	A.b	NIVAFSLNLEMKKG	IPSSVRKE	TYKKSLEQLGIL</

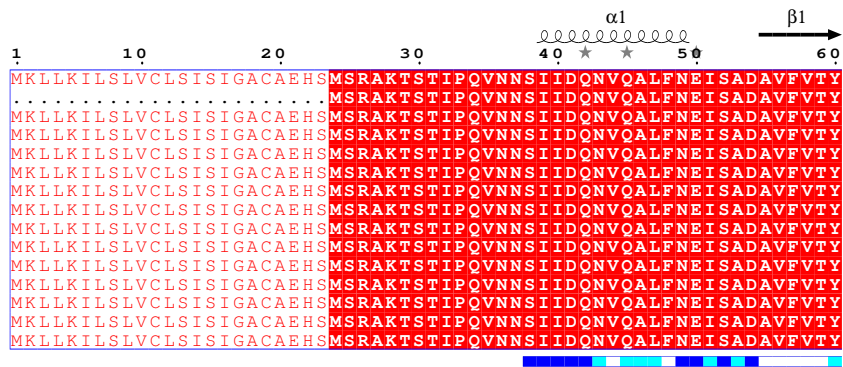
acc

OXA-58-like subfamily

4OH0_OXA-58-like_A.b.

4OH0_OXA-58-like_A.b.
OXA-58-like_ANC38777.1 A.b.
OXA-58-like_AXW92580.1 A.b.
OXA-58-like_AVE88633.1 A.b.
OXA-58-like_AVN12783.1 A.b.
OXA-58-like_QBY16302.1 A.b.
OXA-58-like_QMS84120.1 A.b.
OXA-58-like_QJP39652.1 A.b.
OXA-58-like_QJF29755.1 A.b.
OXA-58-like_QOJ62286.1 A.b.
OXA-58-like_QNB01599.1 A.b.
OXA-58-like_QBY91612.1 A.b.
OXA-58-like_QFH47329.1 A.b.
OXA-58-like_AXB17680.1 A.b.

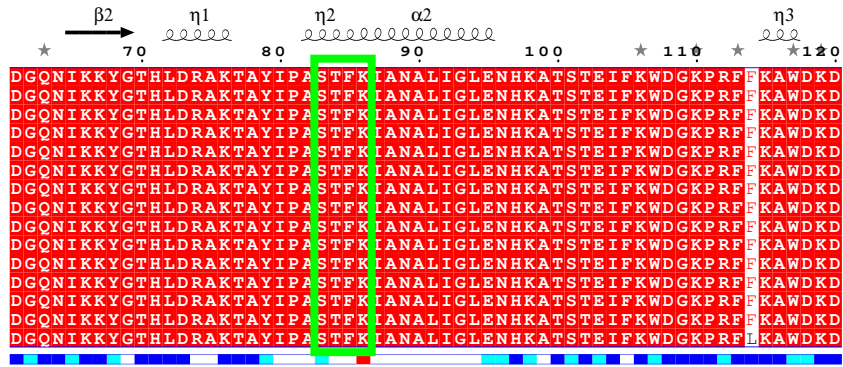
acc



4OH0_OXA-58-like_A.b.

4OH0_OXA-58-like_A.b.
OXA-58-like_ANC38777.1 A.b.
OXA-58-like_AXW92580.1 A.b.
OXA-58-like_AVE88633.1 A.b.
OXA-58-like_AVN12783.1 A.b.
OXA-58-like_QBY16302.1 A.b.
OXA-58-like_QMS84120.1 A.b.
OXA-58-like_QJP39652.1 A.b.
OXA-58-like_QJF29755.1 A.b.
OXA-58-like_QOJ62286.1 A.b.
OXA-58-like_QNB01599.1 A.b.
OXA-58-like_QBY91612.1 A.b.
OXA-58-like_QJF41203.1 A.b.
OXA-58-like_QFH47329.1 A.b.
OXA-58-like_AXB17680.1 A.b.

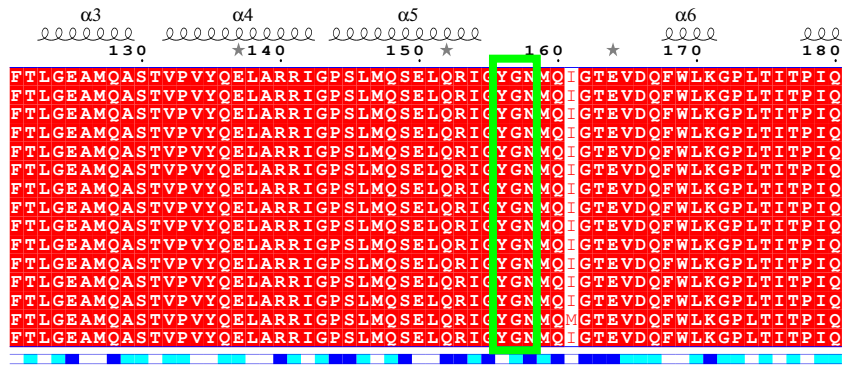
acc



4OH0_OXA-58-like_A.b.

4OH0_OXA-58-like_A.b.
OXA-58-like_ANC38777.1 A.b.
OXA-58-like_AXW92580.1 A.b.
OXA-58-like_AVE88633.1 A.b.
OXA-58-like_AVN12783.1 A.b.
OXA-58-like_QBY16302.1 A.b.
OXA-58-like_QMS84120.1 A.b.
OXA-58-like_QJP39652.1 A.b.
OXA-58-like_QJF29755.1 A.b.
OXA-58-like_QOJ62286.1 A.b.
OXA-58-like_QNB01599.1 A.b.
OXA-58-like_QBY91612.1 A.b.
OXA-58-like_QJF41203.1 A.b.
OXA-58-like_QFH47329.1 A.b.
OXA-58-like_AXB17680.1 A.b.

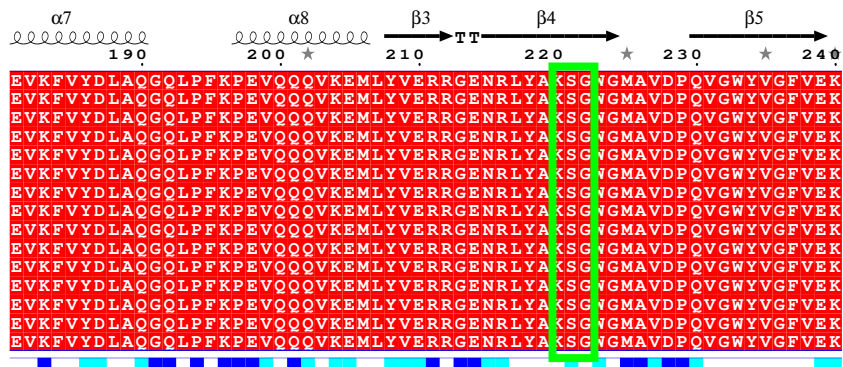
acc



4OH0_OXA-58-like_A.b.

4OH0_OXA-58-like_A.b.
OXA-58-like_ANC38777.1 A.b.
OXA-58-like_AXW92580.1 A.b.
OXA-58-like_AVE88633.1 A.b.
OXA-58-like_AVN12783.1 A.b.
OXA-58-like_QBY16302.1 A.b.
OXA-58-like_QMS84120.1 A.b.
OXA-58-like_QJP39652.1 A.b.
OXA-58-like_QJF29755.1 A.b.
OXA-58-like_QOJ62286.1 A.b.
OXA-58-like_QNB01599.1 A.b.
OXA-58-like_QBY91612.1 A.b.
OXA-58-like_QJF41203.1 A.b.
OXA-58-like_QFH47329.1 A.b.
OXA-58-like_AXB17680.1 A.b.

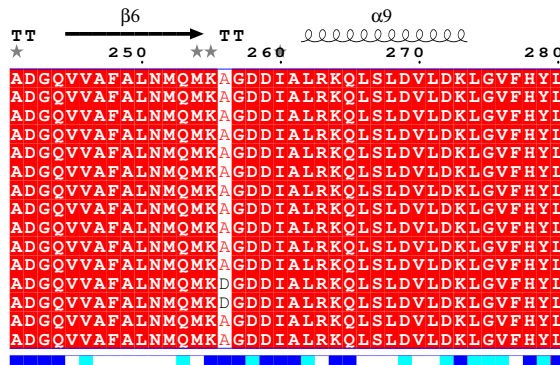
acc



4OH0_OXA-58-like_A.b.

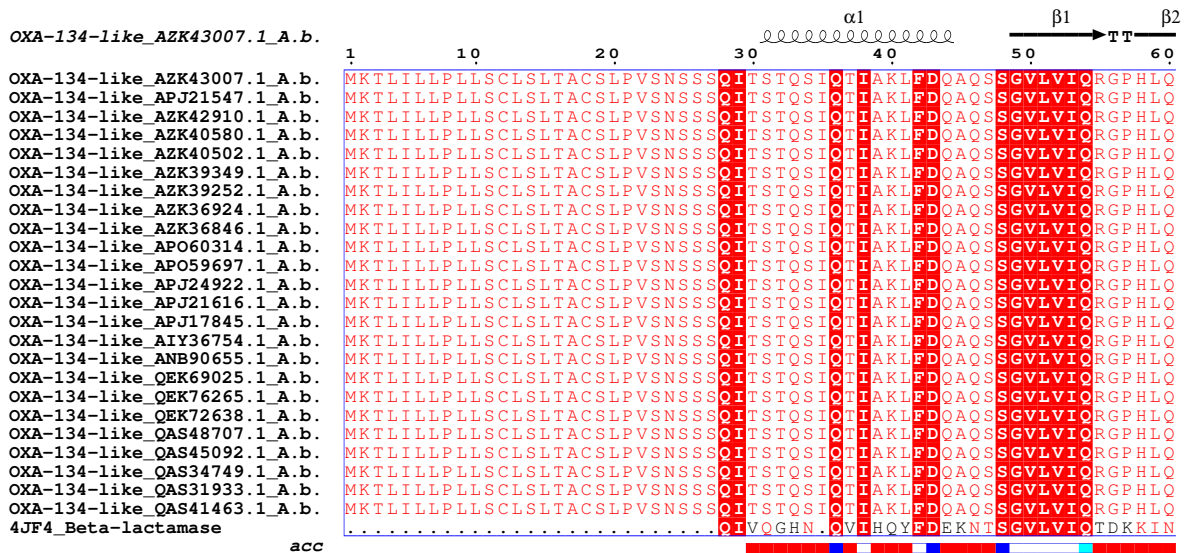
4OH0_OXA-58-like_A.b.
OXA-58-like_ANC38777.1 A.b.
OXA-58-like_AXW92580.1 A.b.
OXA-58-like_AVE88633.1 A.b.
OXA-58-like_AVN12783.1 A.b.
OXA-58-like_QBY16302.1 A.b.
OXA-58-like_QMS84120.1 A.b.
OXA-58-like_QJP39652.1 A.b.
OXA-58-like_QJF29755.1 A.b.
OXA-58-like_QOJ62286.1 A.b.
OXA-58-like_QNB01599.1 A.b.
OXA-58-like_QBY91612.1 A.b.
OXA-58-like_QJF41203.1 A.b.
OXA-58-like_QFH47329.1 A.b.
OXA-58-like_AXB17680.1 A.b.

acc

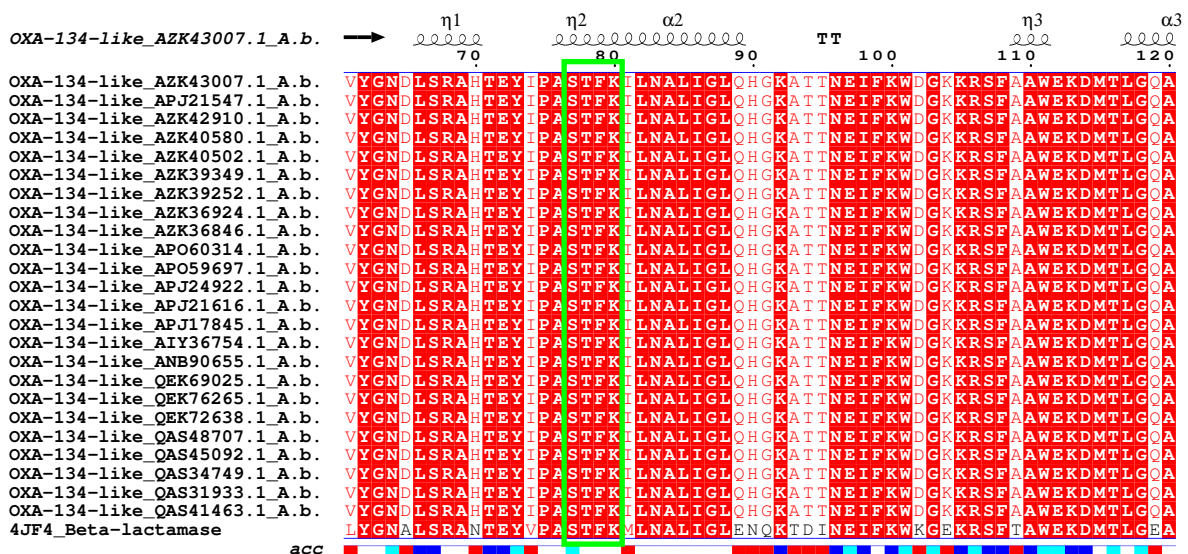


OXA-134-like subfamily

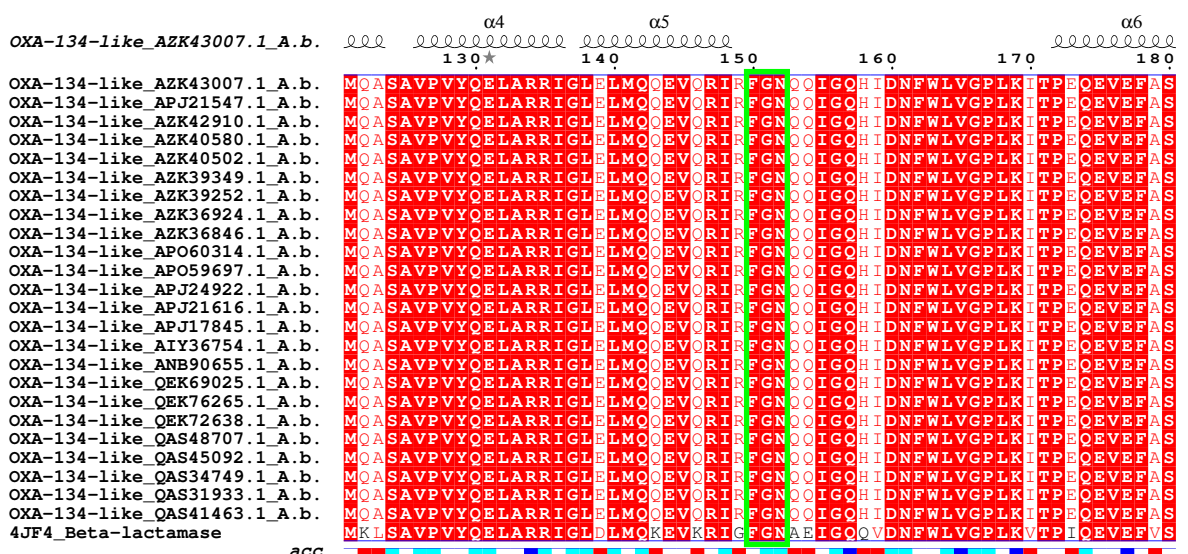
OXA-134-like_AZK43007.1_A.b.



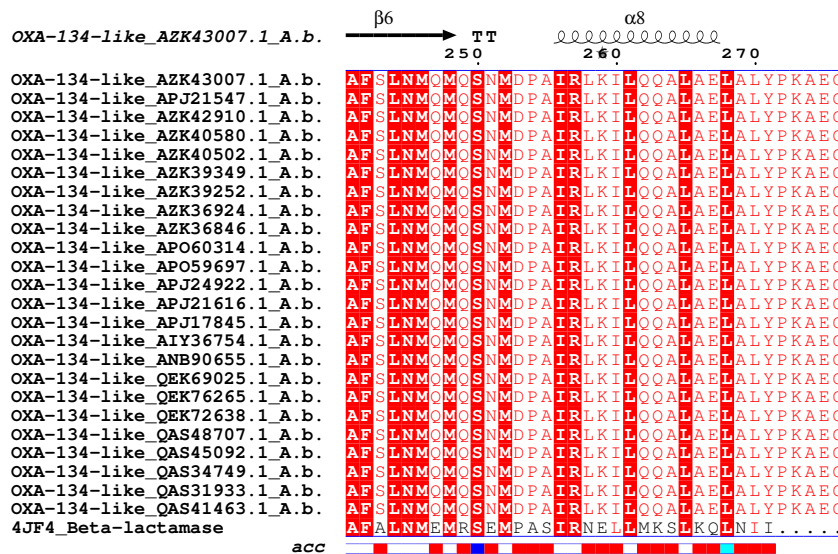
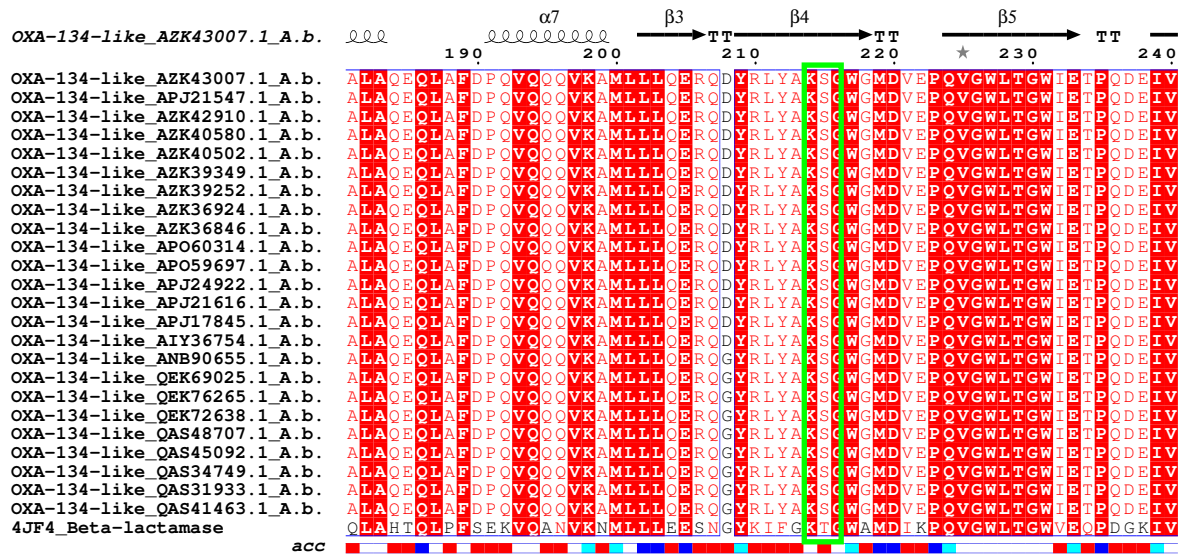
OXA-134-like_AZK43007.1_A.b.



OXA-134-like_AZK43007.1_A.b.



OXA-134-like subfamily



OXA-213-like subfamily

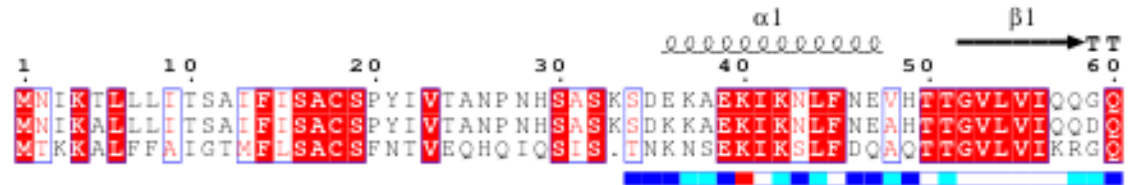
4ZDX_1_Beta-lactamase

4ZDX_1_Beta-lactamase

OXA-213-like_QLF06531.1_A.b.

OXA-213-like_QNB02485.1_A.b.

acc



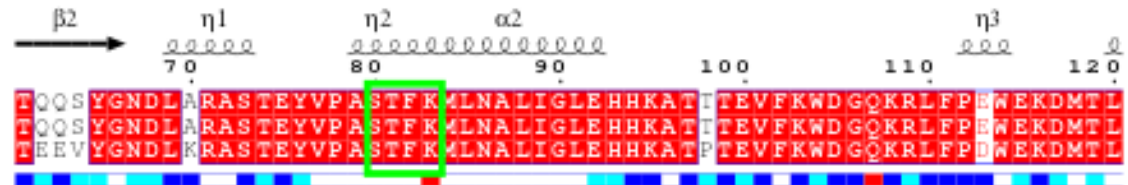
4ZDX_1_Beta-lactamase

4ZDX_1_Beta-lactamase

OXA-213-like_QLF06531.1_A.b.

OXA-213-like_QNB02485.1_A.b.

acc



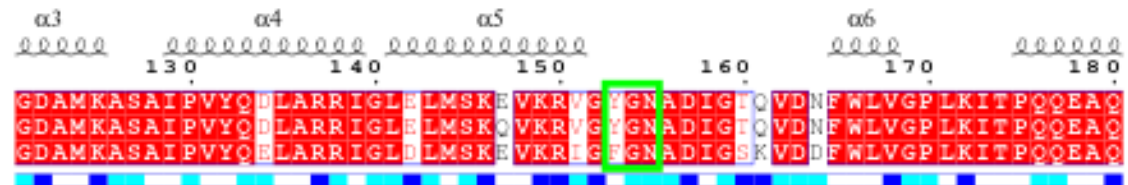
4ZDX_1_Beta-lactamase

4ZDX_1_Beta-lactamase

OXA-213-like_QLF06531.1_A.b.

OXA-213-like_QNB02485.1_A.b.

acc



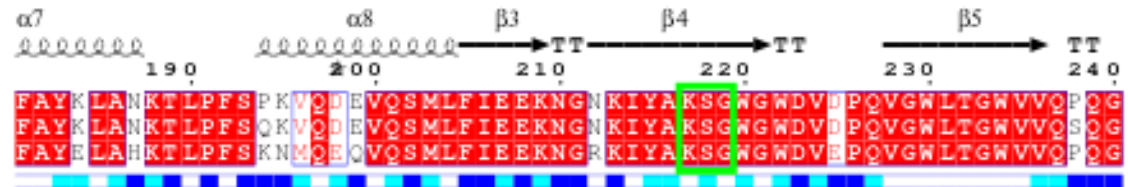
4ZDX_1_Beta-lactamase

4ZDX_1_Beta-lactamase

OXA-213-like_QLF06531.1_A.b.

OXA-213-like_QNB02485.1_A.b.

acc



4ZDX_1_Beta-lactamase

4ZDX_1_Beta-lactamase

OXA-213-like_QLF06531.1_A.b.

OXA-213-like_QNB02485.1_A.b.

acc



$\beta_1 \rightarrow \eta_1 \alpha_1$ (30) (40) $\beta_2 \rightarrow$ (50) $\beta_3 \rightarrow \alpha_2$ (60)

OXA-48-like_QRC22072.1_K.p.
OXA-48-like_ASG42064.1_E.spp.
OXA-48-like_QRC13711.1_K.p.
OXA-48-like_VAY01821.1_K.p.
OXA-48-like_VAX91950.1_K.p.
OXA-48-like_VAX91959.1_K.p.
OXA-48-like_PXP62592.1_K.p.
OXA-48-like_QOU38957.1_K.p.
OXA-48-like_QOT97232.1_K.p.
OXA-48-like_QL133314.1_K.p.
OXA-48-like_QLT27956.1_K.p.
OXA-48-like_QLT22474.1_K.p.
OXA-48-like_QLC16065.1_K.p.
OXA-48-like_QLC05848.1_K.p.
OXA-48-like_QLC00099.1_K.p.
OXA-48-like_QLB94822.1_K.p.
OXA-48-like_QLB89481.1_K.p.
OXA-48-like_QLB84144.1_K.p.
OXA-48-like_QLB78805.1_K.p.
OXA-48-like_QLB73478.1_K.p.
OXA-48-like_QI273388.1_K.p.
OXA-48-like_QI17785.1_K.p.
OXA-48-like_QND07059.1_K.p.
OXA-48-like_QET21519.1_K.p.
OXA-48-like_QCS89961.1_K.p.
OXA-48-like_QCT00720.1_K.p.
OXA-48-like_QDF35925.1_K.p.
OXA-48-like_AZJ02288.1_K.p.
OXA-48-like_AZJ07598.1_K.p.
OXA-48-like_AZS22630.1_K.p.
OXA-48-like_AXS22834.1_K.p.
OXA-48-like_AXR54472.1_K.p.
OXA-48-like_AWR57773.1_K.p.
OXA-48-like_ART03415.1_K.p.
OXA-48-like_ART03346.1_K.p.
OXA-48-like_APQ28988.1_K.p.
OXA-48-like_APP73786.1_K.p.
OXA-48-like_APP67917.1_K.p.
OXA-48-like_APP56266.1_K.p.
OXA-48-like_APP50376.1_K.p.
OXA-48-like_APP44504.1_K.p.
OXA-48-like_APP38728.1_K.p.
OXA-48-like_APM79240.1_K.p.
OXA-48-like_APM37588.1_K.p.
OXA-48-like_APM67987.1_K.p.
OXA-48-like_APM62354.1_K.p.
OXA-48-like_APM47124.1_K.p.
OXA-48-like_APG80363.1_K.p.
OXA-48-like_AOF13070.1_K.p.
OXA-48-like_QPQ02212.1_K.p.
OXA-48-like_PPQ02194.1_K.p.
OXA-48-like_QI134285.1_K.p.
OXA-48-like_QI1J09605.1_K.p.
OXA-48-like_QIR58822.1_K.p.
5OE0_1_Beta-lactamase
OXA-48-like_ANE69785.1_K.p.
OXA-48-like_ANE71804.1_K.p.
OXA-48-like_ANE72730.1_K.p.
OXA-48-like_AOA98603.1_K.p.
OXA-48-like_CEP69754.1_K.p.
OXA-48-like_CEP70686.1_K.p.
OXA-48-like_CEP72746.1_K.p.
OXA-48-like_ATX28768.1_K.p.
OXA-48-like_ATX29640.1_K.p.
OXA-48-like_AV014768.1_K.p.
OXA-48-like_AV015618.1_K.p.
OXA-48-like_AWD00385.1_K.p.
OXA-48-like_AWD98100.1_K.p.
OXA-48-like_AWS85277.1_K.p.
OXA-48-like_OEG84876.1_K.p.
OXA-48-like_QIR47572.1_K.p.
OXA-48-like_QIR53202.1_K.p.
OXA-48-like_QO50577.1_K.p.
OXA-48-like_BB098227.1_K.p.
OXA-48-like_BB099129.1_K.p.
OXA-48-like_QDE47101.1_E.spp.
OXA-48-like_OIG86783.1_K.p.
OXA-48-like_ALH88756.1_K.p.
OXA-48-like_AOF02466.1_K.p.
OXA-48-like_AOT26616.1_K.p.
OXA-48-like_AZB79861.1_K.p.
OXA-48-like_AZV17592.1_K.p.
OXA-48-like_QBG05392.1_K.p.
OXA-48-like_QBH46740.1_K.p.
OXA-48-like_QBG61269.1_K.p.
OXA-48-like_QLF61798.1_K.p.
OXA-48-like_QLF61822.1_K.p.

	10	20	30	40	50	60																																																			
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N	A	H	F	T	E	H	K	S	Q	G	V	V	V	L	W	N	E	N	K	O	O	G	F	T	N	N	L	K
M	R	V	L	A	S	A	V	F	L	V	A	S	I	G	M	P	A	V	A	K	E	W	Q	E	N	K	S	W	N																												

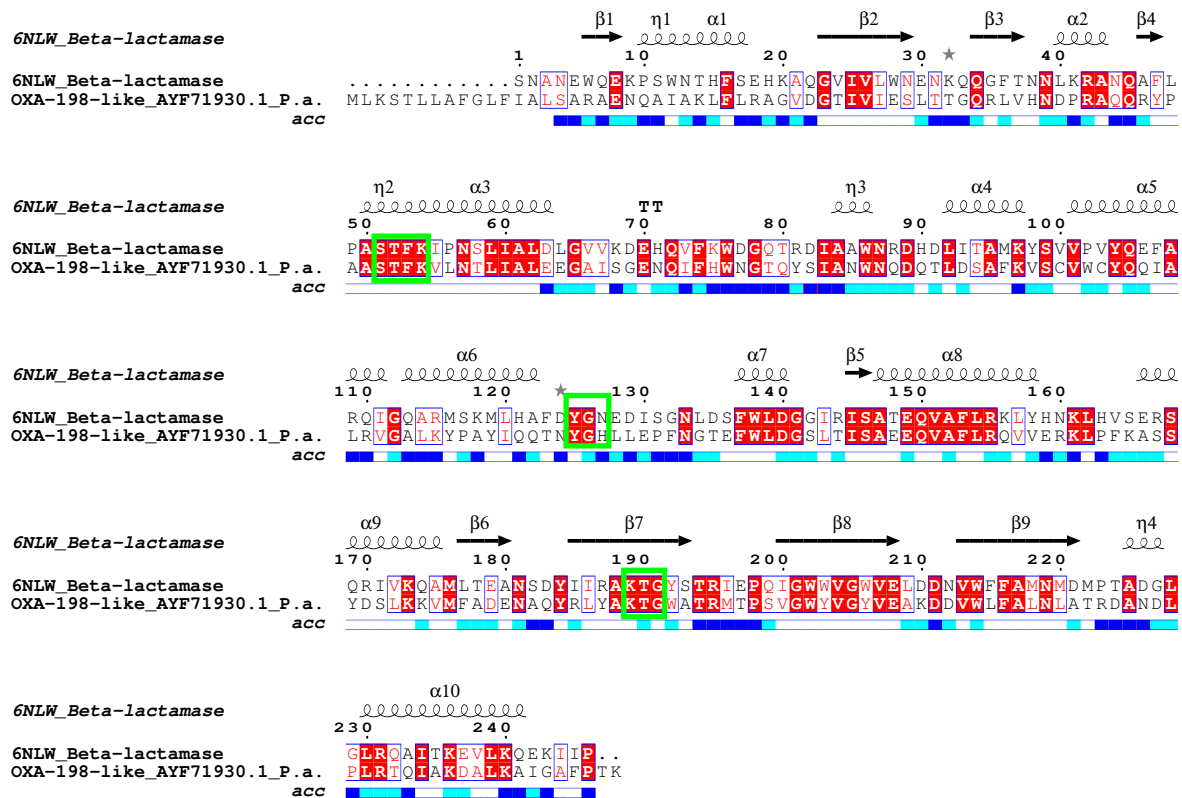
acc

OXA-48-like subfamily

OXA-48-like_QRC22072.1_K.p.	η2	α3	TT	η3	α4
	70	80	90	100	110
OXA-48-like_QRC22072.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ASG42064.1_E.spp.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QRC13711.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_VAX01821.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_VAX91950.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_VAX91959.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QPP62592.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QOU38957.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QOT97232.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLI33314.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLI27956.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLI22474.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLC16065.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLC05384.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLC00099.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLB94822.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLB89481.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLB84144.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLB78805.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLB73478.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QI23388.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QI17785.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QND07059.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QET12150.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QCS89961.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QCT00720.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QDF35925.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AZJ02288.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AZJ07598.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AZJ24690.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AXS22834.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AXR54472.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AWR57773.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ART03415.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ART03346.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APQ28988.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APP73786.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APP67917.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APP56266.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APP50376.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APP44504.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APP38728.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APM79240.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APM73588.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APM67987.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APM62354.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APM47124.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_APG80363.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AOF13070.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QPQ02212.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QPQ02194.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QI34285.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QI309605.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QIR58822.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
50E0.1_Beta-lactamase	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ANE69785.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ANE71804.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ANE72730.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AOA98603.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_CEP69754.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_CEP70686.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_CEP72746.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ATX28768.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ATX29640.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AVO14768.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AVO15618.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AWD00385.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AWD98100.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AWS85277.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QEG84876.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QIR47572.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QIR53202.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QQ050577.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_BB098227.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_BB099129.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QDE47101.1_E.spp.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AIG86783.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ALH88756.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AOF02466.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_ATQ26616.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AZB79861.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_AZV17592.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QBG05392.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QBH46740.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QBH61269.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLF61798.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV
OXA-48-like_QLF61822.1_K.p.	RANQAF	LPAST	FFKIP	NSLIA	LDLGV

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OXA-198-like subfamily



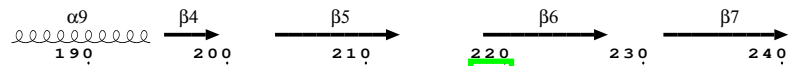
OXA-48-like subfamily

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OXA-48-like subfamily

OXA-48-like_QRC22072.1_K.p.



OXA-48-like_QRC22072.1_K.p.
OXA-48-like_ASG42064.1_E.spp.
OXA-48-like_QRC13711.1_K.p.
OXA-48-like_VAY01821.1_K.p.
OXA-48-like_VAX91950.1_K.p.
OXA-48-like_VAX91959.1_K.p.
OXA-48-like_QPU62592.1_K.p.
OXA-48-like_QOU38957.1_K.p.
OXA-48-like_QOT97232.1_K.p.
OXA-48-like_QLI133314.1_K.p.
OXA-48-like_QLI27956.1_K.p.
OXA-48-like_QLI22474.1_K.p.
OXA-48-like_QLC16065.1_K.p.
OXA-48-like_QLC05384.1_K.p.
OXA-48-like_QLC00099.1_K.p.
OXA-48-like_QLB94822.1_K.p.
OXA-48-like_QLB89481.1_K.p.
OXA-48-like_QLB84144.1_K.p.
OXA-48-like_QLB78805.1_K.p.
OXA-48-like_QLB73478.1_K.p.
OXA-48-like_QIJ23388.1_K.p.
OXA-48-like_QIJ17785.1_K.p.
OXA-48-like_QND70559.1_K.p.
OXA-48-like_QET12159.1_K.p.
OXA-48-like_QCS89961.1_K.p.
OXA-48-like_QCT00720.1_K.p.
OXA-48-like_QDF35925.1_K.p.
OXA-48-like_AZJ02288.1_K.p.
OXA-48-like_AZJ07598.1_K.p.
OXA-48-like_AXS22469.1_K.p.
OXA-48-like_AXS22834.1_K.p.
OXA-48-like_AXR54472.1_K.p.
OXA-48-like_AWR57773.1_K.p.
OXA-48-like_ART03415.1_K.p.
OXA-48-like_ART03346.1_K.p.
OXA-48-like_APQ28988.1_K.p.
OXA-48-like_APP73786.1_K.p.
OXA-48-like_APP67917.1_K.p.
OXA-48-like_APP56266.1_K.p.
OXA-48-like_APP50376.1_K.p.
OXA-48-like_APP44504.1_K.p.
OXA-48-like_APP38728.1_K.p.
OXA-48-like_APM79240.1_K.p.
OXA-48-like_APM73588.1_K.p.
OXA-48-like_APM67987.1_K.p.
OXA-48-like_APM62354.1_K.p.
OXA-48-like_APM47124.1_K.p.
OXA-48-like_APG80363.1_K.p.
OXA-48-like_AOF13070.1_K.p.
OXA-48-like_OPQ02212.1_K.p.
OXA-48-like_OPQ02194.1_K.p.
OXA-48-like_QIJ34285.1_K.p.
OXA-48-like_QIJ09605.1_K.p.
OXA-48-like_QIR58822.1_K.p.
5OE0_1_Beta-lactamase
OXA-48-like_ANE69785.1_K.p.
OXA-48-like_ANE71804.1_K.p.
OXA-48-like_ANE72730.1_K.p.
OXA-48-like_AOA98603.1_K.p.
OXA-48-like_CEP69754.1_K.p.
OXA-48-like_CEP70896.1_K.p.
OXA-48-like_CEP72746.1_K.p.
OXA-48-like_CXT28768.1_K.p.
OXA-48-like_ATX29640.1_K.p.
OXA-48-like_AVO14768.1_K.p.
OXA-48-like_AVO15618.1_K.p.
OXA-48-like_AWD00385.1_K.p.
OXA-48-like_AWD98100.1_K.p.
OXA-48-like_AWS85277.1_K.p.
OXA-48-like_QEG84876.1_K.p.
OXA-48-like_QIR47572.1_K.p.
OXA-48-like_QIR53202.1_K.p.
OXA-48-like_QO50577.1_K.p.
OXA-48-like_BBO98227.1_K.p.
OXA-48-like_BBO99129.1_K.p.
OXA-48-like_QDE47101.1_E.spp.
OXA-48-like_ALG86783.1_K.p.
OXA-48-like_ALH88756.1_K.p.
OXA-48-like_AOF02466.1_K.p.
OXA-48-like_AOT26616.1_K.p.
OXA-48-like_AZB79861.1_K.p.
OXA-48-like_AZV17592.1_K.p.
OXA-48-like_QBG05392.1_K.p.
OXA-48-like_QBH46740.1_K.p.
OXA-48-like_QBH61269.1_K.p.
OXA-48-like_OLF61798.1_K.p.
OXA-48-like_OLF61822.1_K.p.

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OXA-48-like subfamily

	η4	α10
OXA-48-like_QRC22072.1_K.p.	222	260
OXA-48-like_QRC22072.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ASG42064.1_E.spp.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QRC13711.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_VAY01821.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_VAX91950.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_VAX91959.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QPP62592.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QOU38957.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QOT97232.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLI33314.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLI27956.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLI22474.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLC16065.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLC05384.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLC00099.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLB94822.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLB89481.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLB84144.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLB78805.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLB73478.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLI23388.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLI17785.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QND07059.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QET12150.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QCS89961.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QCT00720.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QDF35925.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AZJ02288.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AZJ07598.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AXZ224690.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AXS22834.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AXR54472.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AWR57773.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ART03415.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ART03346.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APQ28988.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APP73786.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APP67917.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APP56266.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APP50376.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APP44504.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APM38728.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APM79240.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APM73588.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APM67987.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APM62354.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APM47124.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_APG80363.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AOR13070.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QPQ02212.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QPQ02194.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLI34285.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLI09605.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QIR58822.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
50E0.1_Beta-lactamase	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ANE69785.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ANE71804.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ANE72730.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AOA98603.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_CEP69754.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_CEP70686.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_CEP72746.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ATX28768.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ATX29640.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AVO14768.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AVO15618.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AWD00385.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AWD98100.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AWS85277.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QEG84876.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QIR47572.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QIR53202.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QOQ50577.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_BBO98227.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_BBO99129.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QDE47101.1_E.spp.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AIG86783.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ALH88756.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AOF02466.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_ATQ26616.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AZB79861.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_AZV17592.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QBG05392.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QBH46740.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QBH61269.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLF61798.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	
OXA-48-like_QLF61822.1_K.p.	MPTSDGGLGRLQAITKEVLKQEKIIP	

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