Table S1. Fatty acids composition of developed MP.

№	trivial	systematic	index	*1*	*2*	*3*	*t, мин*
1	Caproic	Hexanoic	C 6:0		*0.01*		*4.42*
2	Caprylic	Octanoic	C 8:0	0.36	0.3	0.2	5.14
3	Capric	*Nonanoic*	C10:0	0.58	0.45	1.13	7.39
4		*Cis-9-decenoic*	C10:1	0.18			7.68
5		Undecanoic	C11:0	0.15	0.08	0.14	8.42
6	Lauric	Dodecanoic	C12:0	*0.22*	*0.17*	0.31	*9.29*
7		Tridecanoic	C13:0	*0.19*	*0.07*		*10.65*
8	Myristic	Tetradecanoic	C14:0	0.45	0.24	0.38	11.39
9	Myristoleic	Cis-9-tetradecenoic	C 14:1	0.24	0.17	0.15	11.55
10		Pentadecanoic	C15:0	0.61	0.49	0.33	12.37
11		cis-10-Pentadecenoic	C15:1		0.27		13.02
12	Palmitic	**Hexadecanoic**	**C16:0**	18.6	21.76	19.7	13.59
13	Palmitoleic	cis-9-hexadecenoic	C16:1	2.44	1.8	3.1	13.73
14		Heptadecanoic	C17:0	0.62	0.43	0.39	14.31
15		cis-10-heptadecenoic	C17:1	0.41	0.27	1.0	14.66
16	Stearic	**Octadecanoic**	**C18:0**	13.5	16.78	17.8	15.52
17	Oleic	Cis-9-**octadecenoic**	**C18:1**n9c	34.3	29.6	24.13	16.43
18		trans-9-octadecenoic	C18:1 n9t		0.23		16.66
19	LinoleicLA	Cis-9,12-octadecadienoic	C18:2 w6	9.6	14.5	13.45	16.97
20	y-linolenic GLA	cis-6,9,12-octadecatrienoic	C18:3 w6	0.14	0.09	0.25	17.95
21	a-linolenic	cis-9,12,15-octadecatrienoic	C18:3 w3		0.03	0.17	18.35
22		Nonadecanoic	C19:0		0.31		18.5
23		cis-11-eicosenoic	C20:1 w9		0.24		18.65
24		Eicosanoic	C20:0	0.18	0.15		19.29
25		cis-11,14-eicosadienoic	C20:2	0.26		0.35	20.20
26		*cis*-8,11,14-Eicosatrienoic	C20:3n6		0.24		20.55
27		Cis-11,14,17-eicosatrienoic	C20:3n3		0.11	0.2	21.50
28	Arachidonic	cis-5,8,11,14- Eicosatetraenoic	C20:4 w6	0.3	0.24		21.75
29		cis-5,8,11,14,17- Eicosapentaenoic	C20:5 ω3		0.06		22.25
30		Heneicosanoic	C21:0	0.4	0.48	0.12	22.87
31	Behenic	Docosanoic	22:0	1.38	1.2	0.83	23.3
32	Erucic	*cis*-13-docosenoic	C22:1n9	0.16			23.96
33		Cis-13,16,17-docosadienoic	C22:2	0.63	0.53		25.1
34		cis-5,8,11,14,17-docosapentaenoic	C22:5w3	0.1		0.08	25.53
35		*cis*-4,7,10,13,16,19-Docosahexaenoic	C22:6w3				26.01
36		Tricosanoic	C23:0				26.2
37	Lignoceric	Tetracosanoic	C24:0	0.42	0.63	0.33	24.45
38	nervonic	Cis-15-tetracosenoic	C24:1	0.6	0.34	0.52	28.13

Table S2. The results of search of peptide sequences identified in developed MP according to UniProt DataBase with species *Sus scrofa.*

No	Sequence	Result	Link
1	LCDFYNK	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P20210423DA437993067D6F64326E5E763500BDED000413Y
2	LGADYYTK	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P202104238471C63D39733769F8E060B506551E12001FD5M
3	VPYHLAAAR	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P202104235C475328CEF75220C360D524E9D456CE0020A00
4	LEYFSSQK	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P20210423DA437993067D6F64326E5E763500BDED000415U
5	LLAYTTKKK	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P202104238BC4D7ADE02784B0C2481C7F3DE0963A0003E7X
6	LFDNYNTLK	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P20210423A2A5A37CD3FF71F97605B695F360A9FA0004273
7	HNGN	212 proteins	https://www.uniprot.org/uniprot/?query=job:P202104238BC4D7ADE02784B0C2481C7F3DE0963A0003E83&columns=id,entry%20name,reviewed,protein%20names,genes,organism,length,peptidesearch(P202104238BC4D7ADE02784B0C2481C7F3DE0963A0003E83)
8	QGEEFCER	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P202104238471C63D39733769F8E060B506551E12001FD69
9	WTCTQGPRWK	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P20210423E5A08BB0B2D1C45B0C7BC3B55FD26556001FFB8
10	GLVDQGQHNCACR	No entries matching your peptides found	https://www.uniprot.org/peptidesearch/uniprot/P20210423216DA2B77BFBD2E6699CA9B6D1C41EB200204CW

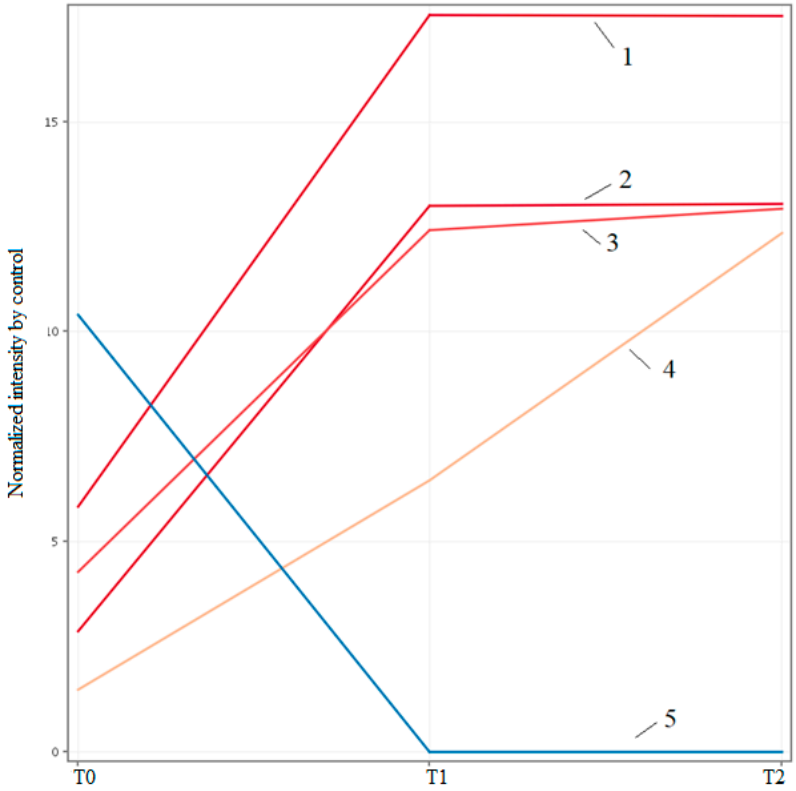

Figure S1. Changes in the dynamics of the peptide profile of the experimental group relative to the control group. 1 – KAAAAP; 2 – NLHLP; 3-organic substance No. 1; 4-organic substance No. 2; 5-FVAPW.

Table S3. The results of search of peptide sequences identified in human plasma according to UniProt DataBase with species *Sus scrofa.*

№	Protein	Protein No	Expression and tissue specificity	Function	Sequence	Similarities
				KAAAAP		
1	LisH domain-containing protein	A0A4X1TTP7	No data	GO:0005515	Match to KAAAAP at 260 MADAGLRRVVPSDLYPLVLDFLRDNQLSDVANKFAKATGVTQQDANASSLLDIYSFWLKSTKAPKR KLQANGPVTKKAKKKTSSSDSSEDSSEEEKAQGPPAKKAAAPAKRAGLPQQPGKATAKASESSSSSSS EESSDEEEDKKKKPVQKVVKPQGKAVKAPPKKAESSDSDSDSSSEDEAPKNQKPKTAAVAAKAQAK VPAKTGTPARAAPKVANGKAASSSSSSSSSSDDDSEEEKAAAVSKKTVPKKQVVVKAPVKAAAAPAQ KSSSSEDSSSEEEEEEQKKKPMKKKPGTYSSVPPPSVPSPKKPLGTQAPKKAAGKQEPVESSEDSSDESD SSSEEEKKPPAKAVVPKAATKAAPAKKAAESSSDSSDSDSSEDEAPAKPASATKNSSKPAATPKQSIAK PATSSKQPVGSGQKPLTRKADSSSSEEESSSSEDEKMKKTVATPKSKVTAKAAPSLPAKQASQGGGDSS SDSDSSSSEEEEEEKTSKTPAKKMPQKDVGAVAPSKPASAKQAKAESSSSSSSDDSSEEEEEDKPKGKST PKPQAPKANGTTALTAQNGKADRDSNEEEEDKKKAAVGVSKPGSGKKRKQNEAAKETETPPAKKIK PQTPNTFPKRKKGERRGSSPFRRIREEEIEVDARVADNSFDAKRGAAGDWGERANQVLKFTKGKSFR HEKTKKKRGSYRGGSISVQVNSIKFDSE	
2	Dymeclin	A0A286ZZM5	Low in heart left ventricle	GO:0007030	Match to KAAAAP at 269 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSPAPTSSTELKLLEEATISVCRSLVENNPRT GNLGALIKVFLSRTKELKLSAECQNHIFIWQTHNALFIICCLLKVFICEMSEEELQLHFTYEEKSPGSYSS DSEDLLEELLCCLMQLITDIPLLDITYEISVEAVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTSK LVKTLLYNFIRQEKPPPPGAHVLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPLA NQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQA TLLLYTLLHQNSNIRTYMLARTDMENLILKNITWYSERVLTEISLGSLLILVIRTIQYNMTRTRDKYLHT NCLAALANMSAQFRSLHQYAAQRIISLFSLLSKKHNKLEQATQSLRGSLSSNDVPLPDYAQDLNVIEE VIRMMLEIINSCLTNSLHHNPNLVYALLYKRDLFEQFRTHPSFQDIMQNIDLVITFFSSRLLQAGAELSV ERVLEIIKQGVVALPKDRLKKFPELKFKYVEEEQPEEFFIPYVWSLVYNTAVGLYWNPQDIQLFTMDSD	
3	Dymeclin	A0A4X1UIA2	No data	No data	Match to KAAAAP at 105 HDITYEISVAVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTSKLVKTLLYNFIRQEKPPPPGAH VLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPLANQSLLLLLVLANLTDAADAP NPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQATLLLYTLLHQNSNIRTYMLAR TDMENLIWIIPFLTSSHVYLNFSSPLQILKNITWYSERVLTEISLGSLLILVVIRTIQYNMTRTRDKYLHTN CLAALANMSAQFRSLHQYAAQRIISLFSLLSKKHNKVLEQATQSLRGSLSSNDVPLPDYAQDLNVIEE VIRMMLEIINSCLTNSLHHNPNLVYALLYKRDLFEQFRTHPSFQDIMQNIDLVITFFSSRLLQAGAELSV ERVLEIIKQGVVALPKDRLKKFPELKFKYVEEEQPEEFFIPYVWSLVYNTAVGLYWNPQDIQLFTMDSD	
4	Dymeclin	A0A5G2R050	No data	No data	Match to KAAAAP at 79 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSFPAPTSSTELKLLEEATISVCRSLAGLWTV FTLGGVGSKAAAAPELSSPLANQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAF QINFNSLYMALCEQQTSDQATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEERNSHHVY MALIILLILTEDDGFNRSIHEVILKNITWYSERVLTEISLGSLLILVVIRTIQYNMTRTRDKYLHTNCLAAL ANMSAQFRSLHQYAAQRIISLFSLLSKKHNKVLEQATQSLRGSLSSNDVPLPDYAQDLNVIEEVIRMM LEIINSCLTNSLHHNPNLVYALLYKRDLFEQFRTHPSFQDIMQNIDLVITFFSSRLLQAGAELSVERVLEI IKQGVVALPKDRLKKFPELKFKYVEEEQPEEFFIPYVWSLVYNT AVGLYWNPQDIQLFTMDSD	
5	Dymeclin	A0A5G2R786	No data	No data	Match to KAAAAP at 269 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSFPAPTSSTELKLLEEATISVCRSLVENNPR TGNLGALIKVFLSRTKELKLSAECQNHIFIWQTHNALFIICCLLKVFICEMSEEELQLHFTYEEKSPGSYS	

					SDSEDLLEELLCCLMQLITDIPLLDITYEISVEAVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTS KLVKTLLYNFIRQEKPPPPGAHVLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPL ANQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQ ATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEERNSHHVYMALIILLILTEDDGFNRSIHEV ILKNITWYSERVLTEISLGSLLILVVIRTIQYNMTRTRDKYLHTNCLAALANMSAQFRSLHQYAAQRIIS LFSLLSKKHNKVLEQATQSLRGSLSSNDVPLPDYAQDLNVIEEVIRMMLEIINSCLTNSLHHNPNLVY ALLYKRDLFEQFRTHPSFQDIMQNIDLVITFFSSRLLQAGAELSVERVLEIIKQGVVALPKDRLKKRLSE YGLRYRSDTQKCNEGF	
6	Dymeclin	F1RPR0	High expression level in right coronary artery, left ventricle free wall, heart left ventricle, coronary artery, heart ventricle, cardiac muscle (myocardium)	No data	Match to KAAAAP at 269 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSFPAPTSSTELKLLEEATISVCRSLVENNPR TGNLGALIKVFLSRTKELKLSAECQNHIFIWQTHNALFIICCLLKVFICEMSEEELQLHFTYEEKSPGSYS SDSEDLLEELLCCLMQLITDIPLLDITYEISVEAVSTMVVFLSCQLFHKEVLRQSISHKDSGGLLYGLASG VATGLWTVFTLGGVGSKAAAAPELSSPLANQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSP FPSSNPHAFQINFNSLYMALCEQQTSDQATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEE RNSHHVYMALIILLILTEDDGFNRSIHEDKYLHTNCLAALANMSAQFRSLHQYAAQRIISLFSLLSKKH NKVLEQATQSLRGSLSSNDVPLPDYAQDLNVIEEVIRMMLEIINSCLTNSLHHNPNLVYALLYKRDLF EQFRTHPSFQDIMQNIDLVITFFSSRLLQAGAELSVERVLEIIKQGVVALPKDRLKKFPELKFKYVEEEQ PEEFFIPYVWSLVYNTAVGLYWNPQDIQLFTMDSD	90% with A0A4X1UIA2 (3)
7	Dymeclin	I3LV52	Low in heart left ventricle	No data	Match to KAAAAP at 269 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSFPAPTSSTELKLLEEATISVCRSLVENNPR TGNLGALIKVFLSRTKELKLSAECQNHIFIWQTHNALFIICCLLKVFICEMSEEELQLHFTYEEKSPGSYS SDSEDLLEELLCCLMQLITDIPLLDITYEISVEAVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTS KLVKTLLYNFIRQEKPPPPGAHVLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPL ANQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQ ATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEERNSHHVYMALIILLILTEDDGFNRSIHEV ILKNITWYSERVLTEISLGSLLILVVIRTIQYNMTRTRDKYLHTNCLAALANMSAQFRSLHQYAAQRIIS LFSLLSKKHNKVLEQATQSLRGSLSSNDVPLPDYVITFFSSRLLQAGAELSVERVLEIIKQGVVALPKDR LKKFPELKFKYVEEEQPEEFFIPYVWSLVYNTAVGLYWNPQDIQLFTMDSD	
8	Dymeclin	A0A5G2QRC1	No data	No data	Match to KAAAAP at 269 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSFPAPTSSTELKLLEEATISVCRSLVENNPR TGNLGALIKVFLSRTKELKLSAECQNHIFIWQTHNALFIICCLLKVFICEMSEEELQLHFTYEEKSPGSYS SDSEDLLEELLCCLMQLITDIPLLDITYEISVEAVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTS KLVKTLLYNFIRQEKPPPPGAHVLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPL ANQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQ ATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEERNSHHVYMALIILLILTEDDGFNRSIHEV ILKNITWYSERVLTEISLGSLLILVVIRTIQYNMTRTRDKYLHTNCLAALANMSAQFRSLHQYAAQRIIS YTCRHLRRYVYVLDKLYFPHSHCSTLQHCFSTLSDNGEELLSLTCSHILRSYASSLFSLLSKKHNKVLEQ ATQSLRGSLSSNDVPLPDYAQDLNVIEEVIRMMLEIINSCLTNSLHHNPNLVYALLYKRDLFEQFRTHP SFQDIMQNIDLVITFFSSRLLQAGAELSVERVLEIIKQGVVALPKDRLKKFPELKFKYVEEEQPEEFFIPY VWSLVYNTAVGLYWNPQDIQLFTMDSD	
9	Dymeclin	A0A480JQY8	No data	No data	Match to KAAAAP at 269 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSFPAPTSSTELKLLEEATISVCRSLVENNPR TGNLGALIKVFLSRTKELKLSAECQNHIFIWQTHNALFIICCLLKVFICEMSEEELQLHFTYEEKSPGSYS SDSEDLLEELLCCLMQLITDIPLLDITYEISVEAVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTS KLVKTLLYNFIRQEKPPPPGAHVLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPL	90% with A0A5G2R786 (5)

					ANQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQ ATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEERNSHHVYMALIILLILTEDDGFNRSIHEV ILKNITWYSERVLTEISLGSLLILVVIRTIQYNMTRTRDKYLHTNCLAALANMSAQFRSLHQYAAQRIIS LFSLLSKKHNKVLEQATQSLRGSLSSNDVPLPDYAQDLNVIEEVIRMMLEIINSCLTNSLHHNPNLVY ALLYKRDLFEQFRTHPSFQDIMQNIDLVITFFSSRLLQAGAELSVERVLEIIKQGVVALPKDRLKKFPEL KFKYVEEEQPEEFFIPYVWSLVYNTAVGLYWNPQDIQLFTMDSD	
10	Dymeclin	I3LFB3	High in heart	No data	Match to KAAAAP at 269 MGSNSSRIGDLPKNEYLKKLSGTESVSENDPFWNQLLSFSFPAPTSSTELKLLEEATISVCRSLVENNPR TGNLGALIKVFLSRTKELKLSAECQNHIFIWQTHNALFIICCLLKVFICEMSEEELQLHFTYEEKSPGSYS SDSEDLLEELLCCLMQLITDIPLLDITYEISVEAVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTS KLVKTLLYNFIRQEKPPPPGAHVLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPL ANQSLLLLLVLANLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQ ATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEERNSHHVYMALIILLILTEDDGFNRSIHEV ILKNITWYSERVLTEISLGSLLILVVIRTIQYNMTRTRDKYLHTNCLAALANMSAQFRSLHQYAAQRIIS LFSLLSKKHNKVLEQATQSLRGSLSSNDVPLPDYAQDLNVIEEVIRMMLEIINSCLTNSLHHNPNLVY ALLYKRDLFEQFRTHPSFQDIMQNIDLVITFFSSRLLQAGAELSVERVLEIIKQGVVALPKDRLKAGPGD SPTQRHQEVKERMHLVVLKP	90% with A0A5G2R786 (5) A0A480JQY8 (9)
11	Dymeclin	A0A4X1UIA6	No data	GO:0016021	Match to KAAAAP at 115 MYSLLEKRTHLSAKVIIIPLSVSTMVVFLSCQLFHKEVLRQSISHKYLMRGRCLPYTSKLVKTLLYNFIRQ EKPPPPGAHVLPQQSDSGGLLYGLASGVATGLWTVFTLGGVGSKAAAAPELSSPLANQSLLLLLVLA NLTDAADAPNPYRQAIMSFKNTQDSSPFPSSNPHAFQINFNSLYMALCEQQTSDQATLLLYTLLHQN SNIRTYMLARTDMENLIWIIPFLTSSHVYLNFSSPLQILKNITWYSERVLTEISLGSLLILVVIRTIQYNMT RTRDKYLHTNCLAALANMSAQFRSLHQYAAQRIISLFSLLSKKHNKVLEQATQSLRGSLSSNDVPLPD YAQDLNVIEEVIRMMLEIINSCLTNSLHHNPNLVYALLYKRDLFEQFRTHPSFQDIMQNIDLVITFFSSR LLQAGAELSVERVLEIIKQGVVALPKDRLKKFPELKFKYVEEEQPEEFFIPYVWSLVYNTAVGLYWNPQ DIQLFTMDSD	90% with A0A4X1UIA2 (3)
12	E1A binding protein p400	I3L7Y4	Medium-low in heart (64.22) and in endocardial endothelium (58.11)	GO:0005524 GO:0070615 GO:0043968 GO:0043967	Match to KAAAAP at 1599 MLFLYPRPFPPLLLRSQPFFPRLQDPAQHTALPTRPAHFPAPRPAQGVRKHQSPQPTLPPRLAGPTHR GSELSSRAYSRSSKGAPEGTDGHTQPAPSPLELPSRNLHSPQTPRLARRRPIGPPRRLASLAFLAVSTPPS HPTSCRAPKRSCGRAFLPARRSRRAAASSAQVPDVSSGTAPPGPRPQPQFDAEEQAGPGRTLSWIKRR AIMHHGSGPQNVQHQLQRSRAFASSEGEEQPAHPNPPQSPATPFAPSASPSAPQSPGYPVQQLMSRS PVAGQNVNIALQNVGPVVGGNPQITLAPLPLPSPTSPGFQFSTQQRRFEHGSPSYIQVTSPLSQQVQTQ SPTQPSPGPGPGLQSVRAGAPGPGLGLCSSSPTGGFVDASVLVRQISLSPSSGSHFVFQEGSGLAQMAQ GGQVQLQHAGAPIAVRERRLSQPHAQSGGTVHHLGPQSPAGGAGLQPLSSPGHITTTSLPPQISSIIQG QLIQQQQVLQGPPLTRPLLPGVGVGVGGASAFGMTSPPPPTSPSRTAVPPGLSSLPLTSAGSAGVRKAP RKLEEIPPASQELAQMRKQCLDYHYREMEALKEAFKEYLIELFFLQHLQGNMMDFLAFKKKHYAPL QAYLRQNDLDLEEEEEEEEEEEKSEVINDEQQALAGTLVAGAGSTVETDPFKRQQAGPPAEQSKRPRL EVGHQGVVFQHPGVNTGVPLQQLMPTVQGGMPPAPQAAQLAGQKQSQQQYDPSTGPPVQNAASL HTPPPQLPGRLPAAGLPTVPLPPALQFSQQPQMVEPQPQLQIPVKTQQPNAPVPAPPPSQLPAPPPQP TPPALHVPMPGKAQMQAPPLSAQPQTVASSRPPVDPAQPCPRPPPSSSTSSIAPASGSGPGPSPARASP VNRPSLATTKSLSPVTSRSPGAAVSALPKPQSPAQNTAPPQDSSQDKLAEQIALENQIHQRIADLRKEG LWSLRRLPKLQEAPRPKSHWDYLLEEMQWMATDFAQERRWKVAAAKKLVRTVARHHEEKKLREE RGKKEEQNRLRRIAASTAREIEYFWSNIEQVVEIKLQVELEEKRKKALHLQKVSRKGTSFFLQPFLAELP LIDLMKLYEGAFLPNFQWPQPKPDSDETSEEEDMEDCSGDRESRKDVVLIDSLFIMDQFKAAERVNV GKPHTKDIAEVTAVAEAVLPKGSARISTGVKLTAPALLYGALRDYQKIGLDWLAKLYRKNLNGILAD EAGLGKTVQIIAFFAHLACNEGNWGPHLVIVRSCNILKWELELKRWCPGLKTLLYVGSHRELKAKRQ EWSEPNSFNICITSYKQFFRGHASFPRARWKCLVIDEMQRVKGMTERHWEAVFALQSQQRLLLIDAP LHNTFLELWTMVHFLIPGISRPYLHFPLKAPSEENQDYYHKVVIRLHRVTQPFILRRTKRDVEKQLTKK	

					YEHVLKCRLSNRQKALYEDVILQPGTQEALKSGHFVDVLRPLQYRSASLILKALDRDFWKETDLSIFDL IGLENKMTHHEAELLCKKKVTRKLFEELFTAPPLPSSGRPVPVRLKPSRLFQPVQYGQKPEGRTVAFPS AHPPRMAASATATAAPQGHVRGRPPIATFSANPDAKAAAAPFQTSQASSGAPRHQPASTFSTAPSPA HPAKLRAPGPPPPQPQAPSHPAGQSALPQGLVLTSQAQARLPSGEVVKIAQLASLAGPPSRVAQPETP VTLQFQGNKFTLSHSQLRQLTAGQPLQLQGSVLQIVSAPGQSYLRPPGPVVMQTVSQAGALNALGSK PPAGGPGPTPVTPPVAVPGRVAVSPLAAGEPGVASKPASPVAGPTQEEKTRLMKERLDQIYFVNERRC SRAPIYGRDLLGVCSLMGREHMPWLRASESSTGKVTGPVSQFISPSKSQRDLILTLTQRQESLQDVINRV VCVIPPVVAAPPRLWVARPPSLYSHKMRLFRHGLQEHTAPYAQQLQQMTALRSLQFPELRLVQFDSG KLEALAVLLQKLRSEGRRVLILSQMVLMLDILEMFLNFHYLTYIRIDENANSEQRQELMRSFNRDRRIF CALLSTHSRTTGVSLVEADAVVFYDNDLNPVMDAKAQEWCDRIGRRRDVHIYRLVSGNSIEEKLLKN GTKDLIREVAAQGNDYSMAFLTQRTIQELFEVYSPMDDAGFPVKAEEFVVLSQEPSVTETIAPKIARPFI EALKSIEYLEEDAQKPFEEAVPEVSDSDSSRWNEEPSQLEELADFMGQLTPIEKYALNYLELFHTSIDQE KERNSEGAVLSAVQEWEARNARMLREQEARELREQEQEQLLTYTREDAYNAEYVCEGAEGQTEVM PLWTPPTPPQDDNDIYIDSVMCLMYETTPIPESKLPPVYVRKERRRHKTDPSAAGRKKKQRHGEAVVP PRSLFDRATPGMLKIRREGKEQKKNILLKQQTQFAKPLPTFAKPTAESGPDNPEWLISEDWALLQAVK QLLELPLNLTIVSPAHTPNWDLVSDVVNSCSRIYRSSKQCRNRYENVLIPREEGKSKNNRPLRTGQMY AQDENATHTQLYTSHFDLMKMTAGKRSPPIKPLLGMNPFQKNPKHASVLAESGINYDKPLPPIQVAS LRAERIAKEKKALADQQKAQQPPVAQPPPPPPQPQPPPPQQPPPPLPQPQATSSQQPTGPPAVQPQA QAQPPAQPTQPPPKAPPAITTVGSAAVLQAGAIKTSVTGTSMPTGTVSGNVIVNTIAGVPAATFQSIN KRLASPVAPGALTTSGGSAPAQVVHTQPRAVGSPATAASDLVSLAPTQGVRAVTSVTASAVVTTSLTP VQTPTRSLVTQVSQATGVQLPGKTITPAHFQLLRQQQQQQQQQQQQQQQQQQAASQVQVPQIQGQ AQSPAQIKAVGKLTPEHLIKMQKQKLQLPQQAPPPQAPPGPPQPTAQVQVQPPQPTQQQSPQLTTVT APRPGALLTGTTVANLQVARLTRVPTSQLQAQGQMQAQAPQPAQVALAKPPVVSVPAAVVSSPGV TTLPMNVAGISVAIGQPQKTAGQTVVAQPVHVQQLLKLKQQAVQQQKAIQPQAAPGPAAVQQKIT AQQIAAQGQAQKVTYATQPALKTQFLTTPISQAQKLAGTQQVQTQIQVAKLPQVVQQQTPVASIQQ VASASQQASPQTVTLTQATAAGQQVQMIPAVTATAQVVQQKLMQQQVVTTAAAQLQTPGVPNPA QAPASADSPNQQPKLQMRVPAVRLKTPTKPPCP	
13	E1A binding protein p400	A0A287AHU7	Low in heart left ventricle	The same (12) + GO:0006325	Match to KAAAAP at 1562 MLFLYPRPFPPLLLRSQPFFPRLQDPAQHTALPTRPAHFPAPRPAQGVRKHQSPQPTLPPRLAGPTHR GSELSSRAYSRSSKGAPEGTDGHTQPAPSPLELPSRNLHSPQTPRLARRRPIGPPRRLASLAFLAVSTPPS HPTSCRAPKRSCGRAFLPARRSRRAAASSAQVPDVSSGTAPPGPRPQPQFDAEEQAGPGRTLSWIKRR AIMHHGSGPQNVQHQLQRSRAFASSEGEEQPAHPNPPQSPATPFAPSASPSAPQSPGYPVQQLMSRS PVAGQNVNIALQNVGPVVGGNPQITLAPLPLPSPTSPGFQFSTQQRRFEHGSPSYIQVTSPLSQQVQTQ SPTQPSPGPGPGLQSVRAGAPGPGLGLCSSSPTGGFVDASVLVRQISLSPSSGSHFVFQEGSGLAQMAQ GGQVQLQHAGAPIAVRERRLSQPHAQSGGTVHHLGPQSPAGGAGLQPLSSPGHITTTSLPPQISSIIQG QLIQQQQVLQGPPLTRPLLPGVGVGVGGASAFGMTSPPPPTSPSRTAVPPGLSSLPLTSAGSAGVRKAP RKLEEIPPASQELAQMRKQCLDYHYREMEALKEAFKEYLIELFFLQHLQGNMMDFLAFKKKHYAPL QAYLRQNDLDLEEEEEEEEEEEEKSEVINDEVRMCGVLSEGVYDSLEPQSQCRGGLSSFAGGMPPAPQA AQLAGQKQSQQQYDPSTGPPVQNAASLHTPPPQLPGRLPAAGLPTVPLPPALQFSQQPQMVEPQPQ LQIPVKTQQPNAPVPAPPPSQLPAPPPQPTPPALHVPMPGKAQMQAPPLSAQPQTVASSRPPVDPAQ PCPRPPPSSSTSSIAPASGSGPGPSPARASPVNRPSLATTKSLSPVTSRSPGAAVSALPKPQSPAQNTAPP QDSSQDKLAEQIALENQIHQRIADLRKEGLWSLRRLPKLQEAPRPKSHWDYLLEEMQWMATDFAQE RRWKVAAAKKLVRTVARHHEEKKLREERGKKEEQNRLRRIAASTAREIEYFWSNIEQVVEIKLQVELE EKRKKALHLQKVSRKGTSFFLQPFLAELPLIDLMKLYEGAFLPNFQWPQPKPDSDETSEEEDMEDCSG DRESRKDVVLIDSLFIMDQFKAAERVNVGKPHTKDIAEVTAVAEAVLPKGSARISTGVKLTAPALLYG ALRDYQKIGLDWLAKLYRKNLNGILADEAGLGKTVQIIAFFAHLACNEGNWGPHLVIVRSCNILKW ELELKRWCPGLKTLLYVGSHRELKAKRQEWSEPNSFNICITSYKQFFRGHASFPRARWKCLVIDEMQR VKGMTERHWEAVFALQSQQRLLLIDAPLHNTFLELWTMVHFLIPGISRPYLHFPLKAPSEENQDYYH KVVIRLHRVTQPFILRRTKRDVEKQLTKKYEHVLKCRLSNRQKALYEDVILQPGTQEALKSGHFVDVL	90% with I3L7Y4 (12)

					RPLQYRSASLILKALDRDFWKETDLSIFDLIGLENKMTHHEAELLCKKKVTRKLFEELFTAPPLPSSGRP VPVRLKPSRLFQPVQYGQKPEGRTVAFPSAHPPRMAASATATAAPQGHVRGRPPIATFSANPDAKAA AAPFQTSQASSGAPRHQPASTFSTAPSPAHPAKLRAPGPPPPQPQAPSHPAGQSALPQGLVLTSQAQ ARLPSGEVVKIAQLASLAGPPSRVAQPETPVTLQFQGNKFTLSHSQLRQLTAGQPLQLQGSVLQIVSAP GQSYLRPPGPVVMQTVSQAGALNALGSKPPAGGPGPTPVTPPVAVPGRVAVSPLAAGEPGVASKPAS PVAGPTQEEKTRLMKERLDQIYFVNERRCSRAPIYGRDLLGVCSLMGREHMPWLRASESSTGKVTGP VSQFISPSKSQRDLILTLTQRQESLQDVINRVVCVIPPVVAAPPRLWVARPPSLYSHKMRLFRHGLQEH TAPYAQQLQQMTALRSLQFPELRLVQFDSGKLEALAVLLQKLRSEGRRVLILSQMVLMLDILEMFLNF HYLTYIRIDENANSEQRQELMRSFNRDRRIFCALLSTHSRTTGVSLVEADAVVFYDNDLNPVMDAKA QEWCDRIGRRRDVHIYRLVSGNSIEEKLLKNGTKDLIREVAAQGNDYSMAFLTQRTIQELFEVYSPMD DAGFPVKAEEFVVLSQEPSVTETIAPKIARPFIEALKSIEYLEEDAQKPFEEAVPEVSDSDSSRWNEEPSQ LEELADFMGQLTPIEKYALNYLELFHTSIDQEKERNSEGAVLSAVQEWEARNARMLREQEARELREQ EQEQLLTYTREDAYNAEYVCEGAEGQTEVMPLWTPPTPPQDDNDIYIDSVMCLMYETTPIPESKLPPV YVRKERRRHKTDPSAAGRKKKQRHGEAVVPPRSLFDRATPGMLKIRREGKEQKKNILLKQQTQFAKP LPTFAKPTAESGPDNPEWLISEDWALLQAVKQLLELPLNLTIVSPAHTPNWDLVSDVVNSCSRIYRSSK QCRNRYENVLIPREEGKSKNNRPLRTGQMYAQDENATHTQLYTSHFDLMKMTAGKRSPPIKPLLGM NPFQKNPKHASVLAESGINYDKPLPPIQVASLRAERIAKEKKALADQQKAQQPPVAQPPPPPPQPQPP PPQQPPPPLPQPQATSSQQPTGPPAVQPQAQAQPPAQPTQPPPKAPPAITTVGSAAVLQAGAIKTSVT GTSMPTGTVSGNVIVNTIAGVPAATFQSINKRLASPVAPGALTTSGGSAPAQVVHTQPRAVGSPATA ASDLVSLAPTQGVRAVTSVTASAVVTTSLTPVQTPTRSLVTQVSQATGVQLPGKTITPAHFQLLRQQQ QQQQQQQQQQQQQQQAASQVQVPQIQGQAQSPAQIKAVGKLTPEHLIKMQKQKLQLPQQAPPPQ APPGPPQPTAQVQVQPPQPTQQQSPQLTTVTAPRPGALLTGTTVANLQVARLTRVPTSQLQAQGQM QAQAPQPAQVALAKPPVVSVPAAVVSSPGVTTLPMNVAGISVAIGQPQKTAGQTVVAQPVHVQQLL KLKQQAVQQQKAIQPQAAPGPAAVQQKITAQQIAAQGQAQKVTYATQPALKTQFLTTPISQAQKL AGTQQVQTQIQVAKLPQVVQQQTPVASIQQVASASQQASPQTVTLTQATAAGQQVQMIPAVTATA QVVQQKLMQQQVVTTAAAQLQTPGVPNPAQAPASADSPNQQPKLQMRVPAVRLKTPTKPPCP	
14	E1A-binding protein p400 isoform X1	A0A480M084	No data	The same (13)	Match to KAAAAP at 1041 MPRYKLILGRMIAYLRQNDLDLEEEEEEEEEEEKSEVINDEQQALAGTLVAGAGSTVETDPFKRQQAG PPAGGMPPAPQAAQLAGQKQSQQQYDPSTGPPVQNAASLHTPPPQLPGRLPAAGLPTVPLPPALQF SQQPQMVEPQPQLQIPVKTQQPNAPVPAPPPSQLPAPPPQPTPPALHVPMPGKAQMQAPPLSAQPQ TVASSRPPVDPAQPCPRPPPSSSTSSIAPASGSGPGPSPARASPVNRPSLATTKSLSPVTSRSPGAAVSALP KPQSPAQNTAPPQDSSQDKLAEQIALENQIHQRIADLRKEGLWSLRRLPKLQEAPRPKSHWDYLLEE MQWMATDFAQERRWKVAAAKKLVRTVARHHEEKKLREERGKKEEQNRLRRIAASTAREIEYFWSN IEQVVEIKLQVELEEKRKKALHLQKVSRKGKELRSKGLDVLSENFLDSGTSGRKRRASTSLTDDEVEDE EETIEEEEANEGAVDHQTELSNLAKEAELPLIDLMKLYEGAFLPNFQWPQPKPDSDETSEEEDMEDCS GDRESRKDVVLIDSLFIMDQFKAAERVNVGKPHTKDIAEVTAVAEAVLPKGSARISTGVKLTAPALLY GALRDYQKIGLDWLAKLYRKNLNGILADEAGLGKTVQIIAFFAHLACNEGNWGPHLVIVRSCNILK WELELKRWCPGLKTLLYVGSHRELKAKRQEWSEPNSFNICITSYKQFFRGHASFPRARWKCLVIDEM QRVKGMTERHWEAVFALQSQQRLLLIDAPLHNTFLELWTMVHFLIPGISRPYLHFPLKAPSEENQDY YHKVVIRLHRVTQPFILRRTKRDVEKQLTKKYEHVLKCRLSNRQKALYEDVILQPGTQEALKSGHFVD VLSILLRLQRICNHPGLVEPRLPESSYTAGPLQYRSASLILKALDRDFWKETDLSIFDLIGLENKMTHHE AELLCKKKVTRKLFEELFTAPPLPSSGRPVPVRLKPSRLFQPVQYGQKPEGRTVAFPSAHPPRMAASAT ATAAPQGHVRGRPPIATFSANPDAKAAAAAPFQTSQASSGAPRHQPASTFSTAPSPAHPAKLRAPGPP PPQPQAPSHPAGQSALPQGLVLTSQAQARLPSGEVVKIAQLASLAGPPSRVAQPETPVTLQFQGNKFT LSHSQLRQLTAGQPLQLQGSVLQIVSAPGQSYLRPPGPVVMQTVSQAGALNALGSKPPAGGPGPTPV TPPVAVPGRVAVSPLAAGEPGVASKPASPVAGPTQEEKTRLMKERLDQIYFVNERRCSRAPIYGRDLL AVCSLLGREHMPWLRASESSTGKVTGPVSQFISPSKSQRDLILTLAQRQESLQDVINRVVCVIPPVVAA PPRLWVARPPSLYSHKMRLFRHGLQEHTAPYAQQLQQMTALRSLQFPELRLVQFDSGKLEALAVLLQ KLRSEGRRVLILSQMVLMLDILEMFLNFHYLTYIRIDENANSEQRQELMRSFNRDRRIFCALLSTHSRTT	

					GVSLVEADAVVFYDNDLNPVMDAKAQEWCDRIGRRRDVHIYRLVSGNSIEEKLLKNGTKDLIREVA AQGNDYSMAFLTQRTIQELFEVYSPMDDAGFPVKAEEFVVLSQEPSVTETIAPKIARPFIEALKSIEYLEE DAQKPFEEAVPEVSDSDSSRWNEEPSQLEELADFMGQLTPIEKYALNYLELFHTSIDQEKERNSEGAVL SAVQEWEARNARMLREQEARELREQEQEQLLTYTREDAYNAEYVCEGAEGQTEVMPLWTPPTPPQ DDNDIYIDSVMCLMYETTPIPESKLPPVYVRKERRRHKTDPSAAGRKKKQRHGEAVVPPRSLFDRATP GMLKIRREGKEQKKNILLKQQTQFAKPLPTFAKPTAESGPDNPEWLISEDWALLQAVKQLLELPLNLT IVSPAHTPNWDLVSDVVNSCSRIYRSSKQCRNRYENVLIPREEGKSKNNRPLRTGQMYAQDENATHT QLYTSHFDLMKMTAGKRSPPIKPLLGMNPFQKNPKHASVLAESGINYDKPLPPIQVASLRAERIAKEK KALADQQKAQQPPVAQPPPPPPQPQPPPPQQPPPPLPQPQATSSQQPTGPPAVQPQAQAQPPAQPT QPPPKVPPAITTVGSAAVLQAGAIKTSVTGTSMPTGTVSGNVIVNTIAGVPAATFQSINKRLASPVAPG ALTTSGGSAPAQVVHTQPRAVGSPATAASDLVSLAPTQGVRAVTSVTASAVVTTSLTPVQTPTRSLVT QVSQATGVQLPGKTITPAHFQLLRQQQQQQQQQQQQQQQQQQQAASQVQVPQIQGQAQSPAQIKA VGKLTPEHLIKMQKQKLQLPQQAPPPQAPPGPPQPTAQVQVQPPQPTQQQSPQLTTVTAPRPGALLT GTTVANLQVARLTRVPTSQLQAQGQMQAQAPQPAQVALAKPPVVSVPAAVVSSPGVTTLPMNVAG ISVAIGQPQKTAGQTVVAQPVHVQQLLKLKQQAVQQQKAIQPQAAPGPAAVQQKITAQQIAAQGQ AQKVTYATQPALKTQFLTTPISQAQKLAGTQQVQTQIQVAKLPQVVQQQTPVASIQQVASASQQASP QTVTLTQATAAGQQVQMIPAVTATAQVVQQKLMQQQVVTTAAAQLQTPGVPNPAQAPASADSPN QQPKLQMRVPAVRLKTPTKPPCP	
15	E1A-binding protein p400 isoform X1	A0A480K972	No data	The same (13)	Match to KAAAAP at 1081 MRKQCLDYHYREMEALKEAFKEYLIELFFLQHLQGNMMDFLAFKKKHYAPLQAYLRQNDLDLEEEE EEEEEEEKSEVINDEQQALAGTLVAGAGSTVETDPFKRQQAGPPAGGMPPAPQAAQLAGQKQSQQQ YDPSTGPPVQNAASLHTPPPQLPGRLPAAGLPTVPLPPALQFSQQPQMVEPQPQLQIPVKTQQPNAP VPAPPPSQLPAPPPQPTPPALHVPMPGKAQMQAPPLSAQPQTVASSRPPVDPAQPCPRPPPSSSTSSIA PASGSGPGPSPARASPVNRPSLATTKSLSPVTSRSPGAAVSALPKPQSPAQNTAPPQDSSQDKLAEQIA LENQIHQRIADLRKEGLWSLRRLPKLQEAPRPKSHWDYLLEEMQWMATDFAQERRWKVAAAKKLV RTVARHHEEKKLREERGKKEEQNRLRRIAASTAREIEYFWSNIEQVVEIKLQVELEEKRKKALHLQKV SRKGKELRSKGLDVLSENFLDSGTSGRKRRASTSLTDDEVEDEEETIEEEEANEGAVDHQTELSNLAKE AELPLIDLMKLYEGAFLPNFQWPQPKPDSDETSEEEDMEDCSGDRESRKDVVLIDSLFIMDQFKAAER VNVGKPHTKDIAEVTAVAEAVLPKGSARISTGVKLTAPALLYGALRDYQKIGLDWLAKLYRKNLNGI LADEAGLGKTVQIIAFFAHLACNEGNWGPHLVIVRSCNILKWELELKRWCPGLKTLLYVGSHRELKA KRQEWSEPNSFNICITSYKQFFRGHASFPRARWKCLVIDEMQRVKGMTERHWEAVFALQSQQRLLLI DAPLHNTFLELWTMVHFLIPGISRPYLHFPLKAPSEENQDYYHKVVIRLHRVTQPFILRRTKRDVEKQL TKKYEHVLKCRLSNRQKALYEDVILQPGTQEALKSGHFVDVLSILLRLQRICNHPGLVEPRLPESSYTA GPLQYRSASLILKALDRDFWKETDLSIFDLIGLENKMTHHEAELLCKKKVTRKLFEELFTAPPLPSSGRP VPVRLKPSRLFQPVQYGQKPEGRTVAFPSAHPPRMAASATATAAPQGHVRGRPPIATFSANPDAKAA AAPFQTSQASSGAPRHQPASTFSTAPSPAHPAKLRAPGPPPPQPQAPSHPAGQSALPQGLVLTSQAQ ARLPSGEVVKIAQLASLAGPPSRVAQPETPVTLQFQGNKFTLSHSQLRQLTAGQPLQLQGSVLQIVSAP GQSYLRPPGPVVMQTVSQAGALNALGSKPPAGGPGPTPVTPPVAVPGRVAVSPLAAGEPGVASKPAS PVAGPTQEEKTRLMKERLDQIYFVNERRCSRAPIYGRDLLAVCSLMGREHMPWLRASESSTGKVTGP VSQFISPSKSQRDLILTLTQRQESLQDVINRVVCVIPPVVAAPPRLWVARPPSLYSHKMRLFRHGLQEH TAPYAQQLQQMTALRSLQFPELRLVQFDSGKLEALAVLLQKLRSEGRRVLILSQMVLMLDILEMFLNF HYLTYIRIDENANSEQRQELMRSFNRDRRIFCALLSTHSRTTGVSLVEADAVVFYDNDLNPVMDAKA QEWCDRIGRRRDVHIYRLVSGNSIEEKLLKNGTKDLIREVAAQGNDYSMAFLTQRTIQELFEVYSPMD DAGFPVKAEEFVVLSQEPSVTETIAPKIARPFIEALKSIEYLEEDAQKPFEEAVPEVSDSDSSRWNEEPSQ LEELADFMGQLTPIEKYALNYLELFHTSIDQEKERNSEGAVLSAVQEWEARNARMLREQEARELREQ EQEQLLTYTREDAYNAEYVCEGAEGQTEVMPLWTPPTPPQDDNDIYIDSVMCLMYETTPIPESKLPPV YVRKERRRHKTDPSAAGRKKKQRHGEAVVPPRSLFDRATPGMLKIRREGKEQKKNILLKQQTQFAKP LPTFAKPTAESGPDNPEWLISEDWALLQAVKQLLELPLNLTIVSPAHTPNWDLVSDVVNSCSRIYRSSK QCRNRYENVLIPREEGKSKNNRPLRTGQMYAQDENATHTQLYTSHFDLMKMTAGKRSPPIKPLLGM	90% with A0A480M084 (14)

					NPFQKNPKHASVLAESGINYDKPLPPIQVASLRAERIAKEKKALADQQKAQQPPVAQPPPPPPQPQPP PPQQPPPPLPQPQATSSQQPTGPPAVQPQAQAQPPAQPTQPPPKAPPAITTVGSAAVLQAGAIKTSVT GTSMPTGTVSGNVIVNTIAGVPAATFQSINKRLASPVAPGALTTSGGSAPAQVVHTQPRAVGSPATA ASDLVSLAPTQGVRAVTSVTASAVVTTSLTPVQTPTRSLVTQVSQATGVQLPGKTITPAHFQLLRQQQ QQQQQQQQQQQQQQQQAASQVQVPQIQGQAQSPAQIKAVGKLTPEHLIKMQKQKLQLPQQAPPPQ APPGPPQPTAQVQVQPPQPTQQQSPQLTTVTAPRPGALLTGTTVANLQVARLTRVPTSQLQAQGQM QAQAPQPAQVALAKPPVVSVPAAVVSSPGTTLPMNVAGISVAIGQPQKTAGQTVVAQPVHVQQLLK LKQQAVQQQKAIQPQAAPGPAAVQQKITAQQIAAQGQAQKVTYATQPALKTQFLTTPISQAQKLA GTQQVQTQIQVAKLPQVVQQQTPVASIQQVASASQQASPQTVTLTQATAAGQQVQMIPAVTATAQ VVQQKLMQQQVVTTAAAQLQTPGVPNPAQAPASADSPNQQPKLQMRVPAVRLKTPTKPPCP	
16	E1A-binding protein p400 isoform X1	A0A480K656	No data	The same (13)	Match to KAAAAP at 1132 MTSPPPPTSPSRTAVPPGLSSLPLTSAGSAGVRKAPRKLEEIPPASQELAQMRKQCLDYHYREMEALKE AFKEYLIELFFLQHLQGNMMDFLAFKKKHYAPLQAYLRQNDLDLEEEEEEEEEEEKSEVINDEQQAL AGTLVAGAGSTVETDPFKRQQAGPPAGGMPPAPQAAQLAGQKQSQQQYDPSTGPPVQNAASLHTP PPQLPGRLPAAGLPTVPLPPALQFSQQPQMVEPQPQLQIPVKTQQPNAPVPAPPPSQLPAPPPQPTPP ALHVPMPGKAQMQAPPLSAQPQTVASSRPPVDPAQPCPRPPPSSSTSSIAPASGSGPGPSPARASPVNR PSLATTKSLSPVTSRSPGAAVSALPKPQSPAQNTAPPQDSSQDKLAEQIALENQIHQRIADLRKEGLWS LRRLPKLQEAPRPKSHWDYLLEEMQWMATDFAQERRWKVAAAKKLVRTVARHHEEKKLREERGK KEEQNRLRRIAASTAREIEYFWSNIEQVVEIKLQVELEEKRKKALHLQKVSRKGKELRSKGLDVLSENF LDSGTSGRKRRASTSLTDDEVEDEEETIEEEEANEGAVDHQTELSNLAKEAELPLIDLMKLYEGAFLPN FQWPQPKPDSDETSEEEDMEDCSGDRESRKDVVLIDSLFIMDQFKAAERVNVGKPHTKDIAEVTAVA EAVLPKGSARISTGVKLTAPALLYGALRDYQKIGLDWLAKLYRKNLNGILADEAGLGKTVQIIAFFAH LACNEGNWGPHLVIVRSCNILKWELELKRWCPGLKTLLYVGSHRELKAKRQEWSEPNSFNICITSYK QFFRGHASFPRARWKCLVIDEMQRVKGMTERHWEAVFALQSQQRLLLIDAPLHNTFLELWTMVHFL IPGISRPYLHFPLKAPSEENQDYYHKVVIRLHRVTQPFILRRTKRDVEKQLTKKYEHVLKCRLSNRQKA LYEDVILQPGTQEALKSGHFVDVLSILLRLQRICNHPGLVEPRLPESSYTAGPLQYRSASLILKALDRDF WKETDLSIFDLIGLENKMTHHEAELLCKKKVTRKLFEELFTAPPLPSSGRPVPVRLKPSRLFQPVQYGQ KPEGRTVAFPSAHPPRMAASATATAAPQGHVRGRPPIATFSANPDAKAAAAPFQTSQASSGAPRHQ PASTFSTAPSPAHPAKLRAPGPPPPQPQAPSHPAGQSALPQGLVLTSQAQARLPSGEVVKIAQLASLA GPPSRVAQPETPVTLQFQGNKFTLSHSQLRQLTAGQPLQLQGSVLQIVSAPGQSYLRPPGPVVMQTVS QAGALNALGSKPPAGGPGPTPVTPPVALPGRVAVSPLAAGEPGVASKPASPVAGPTQEEKTRLMKER LDQIYFVNERRCSRAPIYGRDLLGVCSLMGREHMPWLRASESSTGKVTGPVSQFISPSKSQRDLILTLTQ RQESLQDVINRVVCVIPPVVAAPPRLWVARPPSLYSHKMRLFRHGLQEHTAPYAQQLQQMTALRSL QFPELRLVQFDSGKLEALAVLLQKLRSEGRRVLILSQMVLMLDILEMFLNFHYLTYIRIDENANSEQRQ ELMRSFNRDRRIFCALLSTHSRTTGVSLVEADAVVFYDNDLNPVMDAKAQEWCDRIGRRRDVHIYRL VSGNSIEEKLLKNGTKDLIREVAAQGNDYSMAFLTQRTIQELFEVYSPMDDAGFPVKAEEFVVLSQEP SVTETIAPKIARPFIEALKSIEYLEEDAQKPFEEAVPEVSDSDSSRWNEEPSQLEELADFMGQLTPIEKYA LNYLELFHTSIDQEKERNSEGAVLSAVQEWEARNARMLREQEARELREQEQEQLLTYTREDAYNAEY VCEGAEGQTEVMPLWTPPTPPQDDNDIYIDSVMCLMYETTPIPESKLPPVYVRKERRRHKTDPSAAGR KKKQRHGEAVVPPRSLFDRATPGMLKIRREGKEQKKNILLKQQTQFAKPLPTFAKPTAESGPDNPEW LISEDWALLQAVKQLLELPLNLTIVSPAHTPNWDLVSDVVNSCSRIYRSSKQCRNRYENVLIPREEGKS KNNRPLRTGQMYAQDENATHTQLYTSHFDLMKMTAGKRSPPIKPLLGMNPFQKNPKHASVLAESGI NYDKPLPPIQVASLRAERIAKEKKALADQQKAQQPPVAQPPPPPPQPQPPPPQQPPPPLPQPQATSSQ QPTGPPAVQPQAQAQPPAQPTQPPPKAPPAITTVGSAAVLQAGAIKTSVTGTSMPTGTVSGNVIVNTI AGVPAATFQSINKRLASPVAPGALTTSGGSAPAQVVHTQPRAVGSPATAASDLVSLAPTQGVRAVTS VTASAVVTTSLTPVQTPTRSLVTQVSQATGVQLPGKTITPAHFQLLRQQQQQQQQQQQQQQQQQQQA ASQVQVPQIQGQAQSPAQIKAVGKLTPEHLIKMQKQKLQLPQQAPPPQAPPGPPQPTAQVQVQPPQ PTQQQSPQLTTVTAPRPGALLTGTTVANLQVARLTRVPTSQLQAQGQMQAQAPQPAQVALAKPPV VSVPAAVVSSPGVTTLPMNVAGISVAIGQPQKTAGQTVVAQPVHVQQLLKLKQQAVQQQKAIQPQ	90% with A0A480M084 (14) and A0A480K972 (15)

					AAPGPAAVQQKITAQQIAAQGQAQKVTYATQPALKTQFLTTPISQAQKLAGTQQVQTQIQVAKLPQ VVQQQTPVASIQQVASASQQASPQTVTLTQATAAGQQVQMIPAVTATAQVVQQKLMQQQVVTTA AAQLQTPGVPNPAQAPASADSPNQQPKLQMRVPAVRLKTPTKPPCP	
17	E1A-binding protein p400 isoform X1	A0A480HPC9	No data	The same (13)	Match to KAAAAP at 1132 MTSPPPPTSPSRTAVPPGLSSLPLTSAGSAGVRKAPRKLEEIPPASQELAQMRKQCLDYHYREMEALKE AFKEYLIELFFLQHLQGNMMDFLAFKKKHYAPLQAYLRQNDLDLEEEEEEEEEEEKSEVINDEQQAL AGTLVAGAGSTVETDPFKRQQAGPPAGGMPPAPQAAQLAGQKQSQQQYDPSTGPPVQNAASLHTP PPQLPGRLPAAGLPTVPLPPALQFSQQPQMVEPQPQLQIPVKTQQPNAPVPAPPPSQLPAPPPQPTPP ALHVPMPGKAQMQAPPLSAQPQTVASSRPPVDPAQPCPRPPPSSSTSSIAPASGSGPGPSPARASPVNR PSLATTKSLSPVTSRSPGAAVSALPKPQSPAQNTAPPQDSSQDKLAEQIALENQIHQRIADLRKEGLWS LRRLPKLQEAPRPKSHWDYLLEEMQWMATDFAQERRWKVAAAKKLVRTVARHHEEKKLREERGK KEEQNRLRRIAASTAREIEYFWSNIEQVVEIKLQVELEEKRKKALHLQKVSRKGKELRSKGLDVLSENF LDSGTSGRKRRASTSLTDDEVEDEEETIEEEEANEGAVDHQTELSNLAKEAELPLIDLMKLYEGAFLPN FQWPQPKPDSDETSEEEDMEDCSGDRESRKDVVLIDSLFIMDQFKAAERVNVGKPHTKDIAEVTAVA EAVLPKGSARISTGVKLTAPALLYGALRDYQKIGLDWLAKLYRKNLNGILADEAGLGKTVQIIAFFAH LACNEGNWGPHLVIVRSCNILKWELELKRWCPGLKTLLYVGSHRELKAKRQEWSEPNSFNICITSYK QFFRGHASFPRARWKCLVIDEMQRVKGMTERHWEAVFALQSQQRLLLIDAPLHNTFLELWTMVHFL IPGISRPYLHFPLKAPSEENQDYYHKVVIRLHRVTQPFILRRTKRDVEKQLTKKYEHVLKCRLSNRQKA LYEDVILQPGTQEALKSGHFVDVLSILLRLQRICNHPGLVEPRLPESSYTAGPLQYRSASLILKALDRDF WKETDLSIFDLIGLENKMTHHEAELLCKKKVTRKLFEELFTAPPLPSSGRPVPVRLKPSRLFQPVQYGQ KPEGRTVAFPSAHPPRMAASATATAAPQGHVRGRPPIATFSANPDAKAAAAPFQTSQASSGAPRHQ PASTFSTAPSPAHPAKLRAPGPPPPQPQAPSHPAGQSALPQGLVLTSQAQARLPSGEVVKIAQLASLA GPPSRVAQPETPVTLQFQGNKFTLSHSQLRQLTAGQPLQLQGSVLQIVSAPGQSYLRPPGPVVMQTVS QAGALNALGSKPPAGGPGPTPVTPPVAVPGRVAVSPLAAGEPGVASKPASPVAGPTQEEKTRLMKER LDQIYFVNERRCSRAPIYGRDLLGVCSLMGREHMPWLRASESSTGKVTGPVSQFISPSKSQRDLILTLTQ RQESLQDVINRVVCVIPPVVAAPPRLWVARPPSLYSHKMRLFRHGLQEHTAPYAQQLQQMTALRSL QFPELRLVQFDSGKLEALAVLLQKLRSEGRRVLILSQMVLMLDILEMFLNFHYLTYIRIDENANSEQRQ ELMRSFNRDRRIFCALLSTHSRTTGVSLVEADAVVFYDNDLNPVMDAKAQEWCDRIGRRRDVHIYRL VSGNSIEEKLLKNGTKDLIREVAAQGNDYSMAFLTQRTIQELFEVYSPMDDAGFPVKAEEFVVLSQEP SVTETIAPKIARPFIEALKSIEYLEEDAQKPFEEAVPEVSDSDSSRWNEEPSQLEELADFMGQLTPIEKYA LNYLELFHTSIDQEKERNSEGAVLSAVQEWEARNARMLREQEARELREQEQEQLLTYTREDAYNAEY VCEGAEGQTEVMPLWTPPTPPQDDNDIYIDSVMCLMYETTPIPESKLPPVYVRKERRRHKTDPSAAGR KKKQRHGEAVVPPRSLFDRATPGMLKIRREGKEQKKNILLKQQTQFAKPLPTFAKPTAESGPDNPEW LISEDWALLQAVKQLLELPLNLTIVSPAHTPNWDLVSDVVNSCSRIYRSSKQCRNRYENVLIPREEGKS KNNRPLRTGQMYAQDENATHTQLYTSHFDLMKMTAGKRSPPIKPLLGMNPFQKNPKHASVLAESGI NYDKPLPPIQVASLRAERIAKEKKALADQQKAQQPPVAQPPPPPPQPQPPPPQQPPPPLPQPQATSSQ QPTGPPAVQPQAQAQPPAQPTQPPPKAPPAITTVGSAAVLQAGAIKTSVTGTSMPTGTVSGNVIVNTI AGVPAATFQSINKRLASPVAPGALTTSGGSAPAQVVHTQPRAVGSPATAASDLVSLAPTQGVRAVTS VTASAVVTTSLTPVQTPTRSLVTQVSQATGVQLPGKTITPAHFQLLRQQQQQQQQQQQQQQQQQQA ASQVQVPQIQGQAQSPAQIKAVGKLTPEHLIKMQKQKLQLPQQAPPPQAPPGPPQPTAQVQVQPPQ PTQQQSPQLTTVTAPRPGALLTGTTVANLQVARLTRVPTSQLQAQGQMQAQAPQPAQVALAKPPV VSVPAAVVSSPGVTTLPMNVAGISVAIGQPQKTAGQTVVAQPVHVQQLLKLKQQAVQQQKAIQPQ AAPGPAAVQQKITAQQIAAQGQAQKVTYATQPALKTQFLTTPISQAQKLAGTQQVQTQIQVAKLPQ VVQQQTPVASIQQVASASQQASPQTVTLTQATAAGQQVQMIPAVTATAQVVQQKLMQQQVVTTA AAQLQTPGVPNPAQAPASADSPNQQPKLQMRVPAVRLKTPTKPPCP	90% with I3L7Y4 (12) and A0A287AHU7 (13)
18	5-hydroxytryptamine receptor 1A	A0A4X1UTF5	No data	GO:0004993 GO:0050795 GO:0046883	Match to KAAAAP at 270 MDVLSPDQGNNTTSSQGPFGARGNATGSSDVTFSYQVITSLLLGTLIFCAVLGNACVVAAIALERSLQ NVANYLIGSLAVTDLMVSVLVLPMAALYQVLNKWTLGQVTCDLFIALDVLCCTSSILHLCAIALDRY	

				GO:0019229	WAITDPIDYVNKRTPRRAAALISLTWLIGFLISIPPMLGWRTPEDRSDPDACTISKDHGYTIYSTFGAFYI PLLLMLVLYGRIFRAARFRIRKTVKKVEKKRGNNPLGASPAPQPPKSVNGEPGIRDWKQGMENKAA AAPCANGAVRQGEEGAALEVIEVHRVGNSKEHLPLPNEASAVSCVPTSFKKKNERNAEAKRKMAL ARERKTVKTLGIIMGTFILCWLPFFIVALVLPFCESSCHMPTLLGAIINWLGYSNSLLNPVIYAYFNKDF QNAFKKIIKCKFCRR	
19	PEHE domain-containing protein	A0A4X1U9H6	Low in heart left ventricle	GO:0043984	Match to KAAAAP at 9 MTMRSAVFKAAAAPAGGNPEQRLDYERAAALGGPEDEPGAAEAHFLPRHRKLKEPGPPLASSQGGS PAPSPAGCGGKGRGLLLPAGAAPGQQEESWGGSVPLPCPPPATKQAGIGGEPAAAGAGCSPRPKYQ AVLPIQTGSLVAAAKEPTPWAGDKGGAAPPAATASDPAGPPPLPLPGPPPLAPTATAGTLAASEGRW KSMRKSPLGGGGGSGASSQAACLKQILLLQLDLIEQQQQQLQAKEKEIEELKSERDTLLARIERMERR MQLVKKDNEKERHKLFQGYETEEREETELSEKIKLECQPELSETSQTLPPKPFSCGRSGKGHKRKSPFG STERKIPVKKLAPEFSKVKTKTPKHSPVKEEPCGSLSETVCKRELRSQETPEKPRSSVDTPPRLSTPQKGP STHPKEKAFSSEIEDLPYLSTTEMYLCRWHQPPPSPLPLRESSPKKEETVARCLMPSSVAGETSVLAVPS WRDHSVEPLRDPNPSDLLENLDDSVFSKRHAKLELDEKRRKRWDIQRIREQRILQRLQLRMYKKKGI QESEPEVTSFFPEPDDVESLMITPFLPVVAFGRPLPKLTPQNFELPWLDERSRCRLEIQKKQTPHRTCRK	
20	PEHE domain-containing protein	A0A4X1UEX9	Low in heart left ventricle	The same (19)	Match to KAAAAP at 9 MTMRSAVFKAAAAPAGGNPEQRLDYERAAALGGPEDEPGAAEAHFLPRHRKLKEPGPPLASSQGGS PAPSPAGCGGKGRGLLLPAGAAPGQQEESWGGSVPLPCPPPATKQAGIGGEPAAAGAGCSPRPKYQ AVLPIQTGSLVAAAKEPTPWAGDKGGAAPPAATASDPAGPPPLPLPGPPPLAPTATAGTLAASEGRW KSMRKSPLGGGGGSGASSQAACLKQILLLQLDLIEQQQQQLQAKEKEIEELKSERDTLLARIERMERR MQLVKKDNEKERHKLFQGYETEEREETELSEKIKLECQPELSETSQTLPPKPFSCGRSGKGHKRKSPFG STERKIPVKKLAPEFSKVKTKTPKHSPVKEEPCGSLSETVCKRELRSQETPEKPRSSVDTPPRLSTPQKGP STHPKEKAFSSEIEDLPYLSTTEMYLCRWHQPPPSPLPLRESSPKKEETVAIPSWRDHSVEPLRDPNPSD LLENLDDSVFSKRHAKLELDEKRRKRWDIQRIREQRILQRLQLRMYKKKGIQESEPEVTSFFPEPDDVE SLMITPFLPVVAFGRPLPKLTPQNFELPWLDERSRCRLEIQKKQTPHRTCRK	90 % with A0A4X1U9H6 (19)
21	Death inducer-obliterator 1	A0A287AIZ5	Low in heart left ventricle	GO:0046872 GO:0097190 GO:0006351	Match to KAAAAP at 478 MDEKGDPSSEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEPEALEQPPPQQGLSLRRSGRQPKR TERVEEFLTTVRRRGRRSAPAPLEEPGEPASCPLTDGDTASEGSVDSASDGKGGPKPGSSAVKERPASS KAKGGDDDEDDTSDSDSDGLTLKELQNRLRRKREQEPADRPPKGLQSRLRKKRREDPVETAGVEAA DAGEGSLPVKAEPEADQGAASPAAEDDREGELQGPAAPGGREQERGGPGRPKPECEVYDPSALYCIC RQPHNNRFMICCDRCEEWFHGDCVGISEARGRLLERNGEDYICPHCTILQVQDERSAESAGPQAAGP RPADADGADLTSVGTVEQTSGGDQGIKGRIEKAANPSGKKKLKIFQPVVEAPGAAKCIGPGCSSAAQ PDSVYCSSDCILKHAAATMRLLSAGKEPKPKPKEKGKTKPERLILQKCTVQAGIKVAPVHKRPAPDRK ENAAKKAAAAPPRSESLAPEPASESSTPSWASDHNYNAVKPERTAAPRPPLLCKSGKEDRRVEKVVA AAAPKKGAPPGSSGGGKQPAPRNLLPKKSPPFANAATARPAIRKSPSGFKGTVPKRPWLSAAPSGAG PAAKQAGLAPGAASSAPKKFPGPAASAAAVKKPLPASAPLASPALGRLVPSSPASSQPNSQIRQNIRR SLKEILWRRAADSDDLVMTESEVGRVALRIEKEMFGLFRVTDSRYKSKYRSLMFNLKDPKNQGLFHR VLREDISLAKLVRMKPEELVSKELSVWKERPAKAVMEPRAKLHSESKKPAAKQETAPDLGDSPPVSDS DEQQEAVRAAPERSAAPLDVFSSMLTDTTSQHRAHLFDLNCKICTGQVPSSEDEPAPKKQKVSASAR KEDSKPVLGSPAPEPGLSSADDLVPDALPKHASEPDLGGAAQAHLEGTHPPVPAGDTPPAPATLEDP PGPAPGGGSVLTTVTVSGRDPRTAPGAASTVTAPAAAQPPEPRPDPPKPVATSVTVPKSILAKPSTPPE PRYLLSIPPSPSTSVPESRSPPDGDTSLFLSRLGTIWKGFINMQSVAKFVTKAYPVSGCFDHLSEDLPDTI HVGGRIAPRTVWDYVGKLKSSVSKELCLIRFQPATEEEEVAYISLYSYFSSRGRFGVVANNSRHVKDLY LIPLSARDPVPSKLLPFEGPGKHQPSEPTCPRPRTPGPAPCHQWALWGLASGMWAAGPRGSLPQARV ASGKSQEAGAPRSAHPQAAPAPGEHPLPLRARGTWGERWAEARPPRGLLAGPSPACCSRGRLQPAS SRALVPRRGLLQRTAYTLAQACRGPRVTPGGQLLLTPKKVT	

22	Death-inducer obliterator 1 isoform b	A0A480UG25	No data	The same (21)	Match to KAAAAP at 478 MDEKGDPSSEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEPEALEQPPPQQGLSLRRSGRQPKR TERVEEFLTTVRRRGRRSAPAPLEEPGEPASCPLTDGDTASEGSVDSASDGKGGPKPGSSAVKERPASS KAKGGDDDEDDTSDSDSDGLTLKELQNRLRRKREQEPADRPPKGLQSRLRKKRREDPVETAGVEAA DAGEGSLPVKAEPEADQGAASPAAEDDREGELQGPAAPGGREQERGGPGRPKPECEVYDPSALYCIC RQPHNNRFMICCDRCEEWFHGDCVGISEARGRLLERNGEDYICPHCTILQVQDESSAESAGPQAAGP RPADADGTDLTSVGTVEQTSGEDQGIKGRIEKAANPSGKKKLKIFQPVVEAPGAAKCIGPGCSSAAQP DSVYCSSDCILKHAAATMRLLSAGKEPKPKPKEKGKTKPERLILQKCTVQAGIKVAPVHKRPAPDRKE NAAKKAAAAPPRSEGLAPEPASESSTPSWASDHNYNAVKPERTAAPRPPLLCKSGKEDRRVEKVVA AAAPKKGAPPGSSGGGKQPAPRNLLPKKSPPFANAATARPAIRKSPSGFKGTVPKRPWLSAAPSGAG PAAKQAGLAPGAASSAPKKFPGPAASAAAVKKPLPASAPLASPALGRLVPSSPASSQPNSQIRQNIRR SLKEILWRRAADSDDLVMTESEVGRVALRIEKEMFGLFRVTDSRYKSKYRSLMFNLKDPKNQGLFHR VLREDISLAKLVRMKPEELVSKELSVWKERPAKAVMEPRAKLHSESKKPAAKQETAPDLGDSPPVSDS DEQQEAVRAAPERSAAPLDVFSSMLTDTTSQHRAHLFDLNCKICTGQVPSSEDEPAPKKQKVSASAR KEDSKPVLGSPAPEPGLSSADDLVPDALPKHASEPDLGGAAQAHLEGTHPPVPAGDTPPAPATLEDP PGPAPGGGSVLTTVTVSGRDPRTAPGAASTVTAPAAAQPPEPRPDPPKPVATSVTVPKSILAKPSTPPE PRYLLSIPPSPSTSVPESRSPPDGDTSLFLSRLGTIWKGFINMQSVAKFVTKAYPVSGCFDHLSEDLPDTI HVGGRIAPRTVWDYVGKLKSSVSKELCLIRFQPATEEEEVAYISLYSYFSSRGRFGVVANNSRHVKDLY LIPLSARDPVPSKLLPFEGPGKHQPSEPTCPRPRTPGPAPCHQWACRLGHRP	90 % with A0A287AIZ5 (21)
23	Death inducer-obliterator 1	A0A287AIF6	Low in heart left ventricle	The same (21)	Match to KAAAAP at 478 MDEKGDPSSEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEPEALEQPPPQQGLSLRRSGRQPKR TERVEEFLTTVRRRGRRSAPAPLEEPGEPASCPLTDGDTASEGSVDSASDGKGGPKPGSSAVKERPASS KAKGGDDDEDDTSDSDSDGLTLKELQNRLRRKREQEPADRPPKGLQSRLRKKRREDPVETAGVEAA DAGEGSLPVKAEPEADQGAASPAAEDDREGELQGPAAPGGREQERGGPGRPKPECEVYDPSALYCIC RQPHNNRFMICCDRCEEWFHGDCVGISEARGRLLERNGEDYICPHCTILQVQDERSAESAGPQAAGP RPADADGADLTSVGTVEQTSGGDQGIKGRIEKAANPSGKKKLKIFQPVVEAPGAAKCIGPGCSSAAQ PDSVYCSSDCILKHAAATMRLLSAGKEPKPKPKEKGKTKPERLILQKCTVQAGIKVAPVHKRPAPDRK ENAAKKAAAAPPRSESLAPEPASESSTPSWASDHNYNAVKPERTAAPRPPLLCKSGKEDRRVEKVVA AAAPKKGAPPGSSGGGKQPAPRNLLPKKSPPFANAATARPAIRKSPSGFKGTVPKRPWLSAAPSGAG PAAKQAGLAPGAASSAPKKFPGPAASAAAVKKPLPASAPLASPALGRLVPSSPASSQPNSQIRQNIRR SLKEILWRRAADSDDLVMTESEVGRVALRIEKEMFGLFRVTDSRYKSKYRSLMFNLKDPKNQGLFHR VLREDISLAKLVRMKPEELVSKELSVWKERPAKAVMEPRAKLHSESKKPAAKQETAPDLGDSPPVSDS DEQQEAVRAAPERSAAPLDVFSSMLTDTTSQHRAHLFDLNCKICTGQVPSSEDEPAPKKQKVSASAR KEDSKPVLGSPAPEPGLSSADDLVPDALPKHASEPDLGGAAQAHLEGTHPPVPAGDTPPAPATLEDP PGPAPGGGSVLTTVTVSGRDPRTAPGAASTVTAPAAAQPPEPRPDPPKPVATSVTVPKSILAKPSTPPE PRYLLSIPPSPSTSVPESRSPPDGDTSLFLSRLGTIWKGFINMQSVAKFVTKAYPVSGCFDHLSEDLPDTI HVGGRIAPRTVWDYVGKLKSSVSKELCLIRFQPATEEEEVAYISLYSYFSSRGRFGVVANNSRHVKDLY LIPLSARDPVPSKLLPFEGPGLESPRPNIILGLVICQKVKRPSGAGELDKPEEKRARPPTQDELDGAPYA KAPGALLPEKKAPKYPLSSGDLAASSTPPGSPPPPPPPPEAPAAPASASVLKILSALKPGAASAVSPASS AVAAAAAPAAPSASKTASPLEHILQTLFGKKKSFDPPTKEAVEAAPACLDPHARADSGLPAAPLLDPI VQQFGQFSKDRALEEEEDDRPYDPEEEYGPERALDAPLLERGRRQDAEAAPEAAEREEVAYDPEDETI LEEAKVTIDDLPNRMCADAQAGPGAPTPSLAEQQQMIEELSRQIEEQKRQVEEQEEALRLQRAAVGA SMAHFSVSDALMSPPPKAELFPQEPQAGGRAAVLPASSQGPGPSADLRPSRDPRQARRLAAESSESEA APKPPANGTRGAPPAREVPGGAVAGPGPVPALEEPDSAPPPWAPDEEAALPAKQDGPLGERSQSPG QQPGESAQPMAPGDGVPRPARKVLLPTPPGASFQPHFPSQNEGQNFNPPGGRDAFSGPLYASQEKAL SCFQYEDPRPAQFAGRGDPPTAEAEGDREPQPRPGEGPGLFPPATQKGGPPPQFPGQREPAPPRTFG MSGLHGPNFPGPRGPVPPCSEENVVSNNEGPRGGAPPGRFGPQKGPIPSLFSGPHGPPPYGDGRGPSP SHLGGPRGGAPPPFEDRTDPHGEKREFQDGAYSEAVGPPAPFEGPEQGQFLGGRGGGAPFQFGGQR	

					RPLLSQFKGPRGGPPPSQFGGQRGPPPGHFGGPRGPHPGQFEGPRGQAPNFMPGPRGIQPQPFEEQR VHSPPRFASQRAPAPLQFAGPRGSAPFPEQGEAAPPRFQFQGQAAPGSKPAPRPLLELPSHPPQHRKD RWDDAGPAPALPAAPGPGPEADFREAKGHEYRNQAFEGRPRERFEAGPKEKPPDEPEAPRPTAGRA APSMTGAASGSVGSPGSGSAAAPGAASGTGTGAASGTDTATRTLAVSGTAAASGTRAGTRGASGTG AASGAATGTGTAGVTARGPAAGTATATRPASGSEAGTAGTAAGARSGPGTPRPRPRGPPTPPPRPRA PAQSRTLWIQK	
24	MSL complex subunit 1	F1RXC8	Medium-low in heart left ventricle (67.87) Medium in endocardial endothelium (83.48) and heart (79.78)	GO:0003682 GO:0043984	Match to KAAAAP at 9 MTMRSAVFKAAAAPAGGNPEQRLDYERAAALGGPEDEPGAAEAHFLPRHRKLKEPGPPLASSQGGS PAPSPAGCGGKGRGLLLPAGAAPGQQEESWGGSVPLPCPPPATKQAGIGGEPAAAGAGCSPRPKYQ AVLPIQTGSLVAAAKEPTPWAGDKGGAAPPAATASDPAGPPPLPLPGPPPLAPTATAGTLAASEGRW KSMRKSPLGGGGGSGASSQAACLKQILLLQLDLIEQQQQQLQAKEKEIEELKSERDTLLARIERMERR MQLVKKDNEKERHKLFQGYETEEREETELSEKIKLECQPELSETSQTLPPKPFSCGRSGKGHKRKSPFG STERKIPVKKLAPEFSKVKTKTPKHSPVKEEPCGSLSETVCKRELRSQETPEKPRSSVDTPPRLSTPQKGP STHPKEKAFSSEIEDLPYLSTTEMYLCRWHQPPPSPLPLRESSPKKEETVARCLMPSSVAGETSVLAVPS WRDHSVEPLRDPNPSDLLENLDDSVFSKRHAKLELDEKRRKRWDIQRIREQRILQRLQLRMYKKKGI QESEPEVTSFFPEPDDVESLMITPFLPVVAFGRPLPKLTPQNFELPWLDERSRCRLEIQKKQTPHRTCRK	100 % with A0A4X1U9H6 (19) 90% with A0A4X1U9H6 (19) and A0A4X1UEX9 (20)
25	MSL complex subunit 1	A0A286ZQ98	Low in heart left ventricle	GO:0043984	Match to KAAAAP at 9 MTMRSAVFKAAAAPAGGNPEQRLDYERAAALGGPEDEPGAAEAHFLPRHRKLKEPGPPLASSQGGS PAPSPAGCGGKGRGLLLPAGAAPGQQEESWGGSVPLPCPPPATKQAGIGGEPAAAGAGCSPRPKYQ AVLPIQTGSLVAAAKEPTPWAGDKGGAAPPAATASDPAGPPPLPLPGPPPLAPTATAGTLAASEGRW KSMRKSPLGGGGGSGASSQAACLKQILLLQLDLIEQQQQQLQAKEKEIEELKSERDTLLARIERMERR MQLVKKDNEKERHKLFQGYETEEREETELSEKIKLECQPELSETSQTLPPKPFSCGRSGKGHKRKSPFG STERKIPVKKLAPEFSKVKTKTPKHSPVKEEPCGSLSETVCKRELRSQETPEKPRSSVDTPPRLSTPQKGP STHPKEKAFSSEIEDLPYLSTTEMYLCRWHQPPPSPLPLRESSPKKEETVAIPSWRDHSVEPLRDPNPSD LLENLDDSVFSKRHAKLELDEKRRKRWDIQRIREQRILQRLQLRMYKKKGIQESEPEVTSFFPEPDDVE SLMITPFLPVVAFGRPLPKLTPQNFELPWLDERSRCRLEIQKKQTPHRTCRK	100 % with A0A4X1UEX9 (20) 90% with A0A4X1U9H6 (19) and F1RXC8 (24) A0A4X1UEX9 (20)
26	MSL complex subunit 1	A0A5G2QBE7	No data	The same (25)	Match to KAAAAP at 9 MTMRSAVFKAAAAPAGGNPEQRLDYERAAALGGPEDEPGAAEAHFLPRHRKLKEPGPPLASSQGGS PAPSPAGCGGKGRGLLLPAGAAPGQQEESWGGSVPLPCPPPATKQAGIGGEPAAAGAGCSPRPKYQ AVLPIQTGSLVAAAKEPTPWAGDKGGAAPPAATASDPAGPPPLPLPGPPPLAPTATAGTLAASEGRW KSMRKSPLGGGGGSGASSQAACLKQILLLQLDLIEQQQQQLQAKEKEIEELKSERDTLLARIERMERR MQLVKKDNEKERHKLFQGYETEEREETELSEKIKLECQPELSETSQTLPPKPFSCGRSGKGHKRKSPFG STERKIPVKKLAPEFSKVKTKTPKHSPVKEEPCGSLSETVCKRELRSQETPEKPRSSVDTPPRLSTPQKGP STHPKEKAFSSEIEDLPYLSTTEMYLCRWHQPPPSPLPLRESSPKKEETVARCLMPSSVAGETSVLAVPS WRDHSVEPLRDPNPSDLLENLDDSVFSKRHAKLELDEKRRKRWDIQRIREQRILQRLQLRMYKKKGI QESEPEVTSFFPEPDDVESLMITPFLPVVAFGRPLPKLTPQNFELPWLDERSRCRLEIQKKQTPHRTYQL SFDLDMLKFC	90% with A0A4X1U9H6 (19), F1RXC8 (24), A0A286ZQ98 (25) and A0A4X1UEX9 (20)
27	Nucleolar and coiled-body	A0A480HQA8	No data	GO:0005515	Match to KAAAAP at 261 MADAGLRRVVPSDLYPLVLGFLRDNQLSDVANKFAKATGVTQQDANASSLLDIYSFWLNRSTKAPK RKLQANGPVTKKAKKKTSSSDSSEDSSEEEKAQGPPAKKAAAPAKRAGLPQQPGKATAKASESSSSS SEESSDEEEDKKKKPVQKVVKPQGKAVKAPPKKAESSDSDSDSSSEDEAPKNQKPKTAAVAAKAQAK	90% with A0A4X1TTP7 (1)

	phosphoprotein 1 isoform 3				VPAKTGTPARAAPKVANGKAASSSSSSSSSSDDDSEEEKAAAVSKKTVPKKQVVVKAPVKAAAAPAQ KSSSSEDSSSEEEEEEQKKKPMKKKPGTYSSVPPPSVPSPKKPLGTQAPKKAAGKQEPVESSEDSSDESD SSSEEEKKPPAKAVVPKAATKAAPAKKAAESSSDSSDSDSSEDEAPAKPASATKNSSKPAATPKQSIAK PATSSKQPVGSGQKPLTRKADSSSSEEESSSSEDEKMKKTVATPKSKVTAKAAPSLPAKQASQGGGDSS SDSDSSSSEEEEEEKTSKTPAKKMPQKDMGAVAPSKPASAKQAKAESSSSSSSDDSSEEEEEDKPKGKST PKPQAPKANGTTALTAQNGKADRDSNEEEEDKKKAAVGVSKPGSGKKRKQNEAAKETETPPAKKIK PQTPNTFPKRKKGERRGSSPFRRIREEEIEVDARVADNSFDAKRGAAGDWGERANQVLKFTKGKSFR HEKTKKKRGSYRGGSISVQVNSIKFDSE	
28	Nucleolar and coiled-body phosphoprotein 1 isoform 3	A0A480HP04	No data	The same (27)	Match to KAAAAP at 261 MADAGLRRVVPSDLYPLVLGFLRDNQLSDVANKFAKATGVTQQDANASSLLDIYSFWLNRSTKAPK RKLQANGPVTKKAKKKTSSSDSSEDSSEEEKAQGPPAKKAAAPAKRAGLPQQPGKATAKASESSSSSS SEESSDEEEDKKKKPVQKVVKPQGKAVKAPPKKAESSDSDSDSSSEDEAPKNQKPKTAAVAAKAQAK VPAKTGTPARAAPKVANGKAASSSSSSSSSSDDDSEEEKAAAVSKKTVPKKQVVVKAPVKAAAAPAQ KSSSSEDSSSEEEEEEQKKKPMKKKPGTYSSVPPPSVPSPKKPLGTQAPKKAAGKQEPVESSEDSSDESD SSSEEEKKPPAKAVVPKAATKAAPAKKAAESSSDSSDSDSSEDEAPAKPASATKNSSKPAATPKQSIAK PATSSKQPVGSGQKPLTRKADSSSSEEESSSSEDEKMKKTVATPKSKVTAKAAPSLPAKQASQGGGDSS SDSDSSSSEEEEEEKTSKTPAKKMPQKDVGAVAPSKPASAKQAKAESSSSSSSDDSSEEEEEDKPKGKST PKPQAPKANGTTALTAQNGKADRDSNEEEEDKKKAAVGVSKPGSGKKRKQNEAAKETETPPAKKIK PQTPNTFPKRKKGERRGSSPFRRIREEEIEVDARVADNSFDAKRGAAGDWGERANQVLKFTKGKSFR HEKTKKKRGSYRGGSISVQVNSIKFDSE	90% with A0A4X1TTP7 (1) and A0A480HQA8 (27)
29	Nucleolar and coiled-body phosphoprotein 1	F1S8T1	Medium in heart (81.79) and endocardial endothelium (76.26); low in heart left ventricle (65.79)	GO:0046982 GO:0030674 GO:0014032 GO:0014029 GO:0007000 GO:0006417	Match to KAAAAP at 261 MADAGLRRVVPSDLYPLVLGFLRDNQLSDVANKFAKATGVTQQDANASSLLDIYSFWLNRSTKAPK RKLQANGPVTKKAKKKTSSSDSSEDSSEEEKAQGPPAKKAAAPAKRAGLPQQPGKATAKASESSSSSS SEESSDEEEDKKKKPVQKVVKPQGKAVKAPPKKAESSDSDSDSSSEDEAPKNQKPKTAAVAAKAQAK VPAKTGTPARAAPKVANGKAASSSSSSSSSSDDDSEEEKAAAVSKKTVPKKQVVVKAPVKAAAAPAQ KSSSSEDSSSEEEEEEQKKKPMKKKPGTYSSVPPPSVPSPKKPLGTQAPKKAAGKQEPVESSEDSSDESD SSSEEEKKPPAKAVVPKAATKAAPAKKAAESSSDSSDSDSSEDEAPAKPASATKNSTKPATSSKQPVGS GQKPLTRKADSSSSEEESSSSEDEKMKKTVATPKSKVTAKAAPSLPAKQASQGGGDSSSDSDSSSSEEEE EEKTSKTPAKKMPQKDVGAVAPSKPASAKQAKAESSSSSSSDDSSEEEEEDKPKGKSTPKPQAPKANG TTALTAQNGKADRDSNEEEEDKKKAAVGVSKPGSGKKRKQNEAAKETETPPAKKIKPQTPNTFPKR KKGERRGSSPFRRIREEEIEVDARVADNSFDAKRGAAGDWGERANQVLKFTKGKSFRHEKTKKKRGS YRGGSISVQVNSIKFDSE	90% with A0A4X1TTP7 (1), A0A480HQA8 (27) and A0A480HP04 (28)
30	CCAAT enhancer binding protein alpha	F1RNW6	Low in heart (49.59) and endocardial endothelium (47.43)	GO:0003682 GO:0001228 GO:0000981 GO:0042802 GO:0019900 GO:0000978 GO:0008134 GO:0050873 GO:0048469 GO:0071407 GO:0071356 GO:0008203	Match to KAAAAP at 92 MESADFYEAEPRPPMSSHLQSPPHAPSSAAFGFPRGAGPAQPPAPPAAPEPLGGICEHETSIDISAYIDP AAFNDEFLADLFQHSRQQEKAKAAAAPAGGGGDFDYPGAPVGPGGAVMPGGAHGPPPSYGCAAA GYLDGRLEPLYERVGAPALRPLVIKQEPREEDESKQLALAGLFPYQPPPPPPPPHSHPPPAHLAAPHL QFQIAHCGQTTMHLQPGHPTPPPTPVPSPHPAPALGAAGLPGPGGALKGLAPAHPDLRAGGGGGA GKAKKSVDKNSNEYRVRRERNNIAVRKSRDKAKQRNVETQQKVLELTSDNDRLRKRVEQLSRELDT LRGIFRQLPESSLVKAMGNCA	

				GO:0001892 GO:0042593 GO:0030851 GO:0048839 GO:0070102 GO:0055088 GO:0001889 GO:0030324 GO:0030225 GO:0007005 GO:0030099 GO:0045786 GO:0008285 GO:0000122 GO:0007219 GO:0045600 GO:0050729 GO:0043032 GO:0045669 GO:0045945 GO:0006357 GO:0000050 GO:0050872		
31	BZIP domain-containing protein	A0A4X1TNP2	The same (30)	The same (30)	Match to KAAAAP at 92 MESADFYEAEPRPPMSSHLQSPPHAPSSAAFGFPRGAGPAQPPAPPAAPEPLGGICEHETSIDISAYIDP AAFNDEFLADLFQHSRQQEKAKAAAAPAGGGGDFDYPGAPVGPGGAVMPGGAHGPPPSYGCAAA GYLDGRLEPLYERVGAPALRPLVIKQEPREEDESKQLALAGLFPYQPPPPPPPPHSHPPPAHLAAPHL QFQIAHCGQTTMHLQPGHPTPPPTPVPSPHPAPALGAAGLPGPGGALKGLAPAHPDLRAGGGGGA GKAKKSVDKNSNEYRVRRERNNIAVRKSRDKAKQRNVETQQKVLELTSDNDRLRKRVEQLSRELDT LRGIFRQLPESSLVKAMGNCA	100%with F1RNW6 (30)
32	Uncharacterized protein	A0A4X1SIV7	No data	The same (21)	Match to KAAAAP at 551 MFAATHGGLSRPARPGTPFSGAGWRIVPLCPVGGPSHPSRAASVPACPTAGRSGPSARPRWTPVMLC LRFLSGMDEKGDPSSEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEPEALEQPPPQQGLSLRRSG RQPKRTERVEEFLTTVRRRGRRSAPAPLEEPGEPASCPLTDGDTASEGSVDSASDGKGGPKPGSSAVKE RPASSKAKGGDDDEDDTSDSDSDGLTLKELQNRLRRKREQEPADRPPKGLQSRLRKKRREDPVETAG VEAADAGEGSLPVKAEPEADQGAASPAAEDDREGELQGPAAPGGREQERGGPGRPKPECEVYDPSA LYCICRQPHNNRFMICCDRCEEWFHGDCVGISEARGRLLERNGEDYICPHCTILQVQDERSAESAGPQ AAGPRPADADGADLTSVGTVEQTSGGDQGIKGRIEKAANPSGKKKLKIFQPVVEAPGAAKCIGPGCS SAAQPDSVYCSSDCILKHAAATMRLLSAGKEPKPKPKEKGKTKPERLILQKCTVQAGIKVAPVHKRP APDRKENAAKKAAAAPPRSESLAPEPASESSTPSWASDHNYNAVKPERTAAPRPPLLCKSGKEDRRV EKVVAAAAPKKGAPPGSSGGGKQPAPRNLLPKKSPPFANAATARPAIRKSPSGFKGTVPKRPWLSAA PSGAGPAAKQAGLAPGAASSAPKKFPGPAASAAAVKKPLPASAPLASPALGRLVPSSPASSQPNSQIR	

					QNIRRSLKEILWRRAADSDDLVMTESEVGRVALRIEKEMFGLFRVTDSRYKSKYRSLMFNLKDPKNQG LFHRVLREDISLAKLVRMKPEELVSKELSVWKERPAKAVMEPRAKLHSESKKPAAKQETAPDLGDSPP VSDSDEQQEAVRAAPERSAAPLDVFSSMLTDTTSQHRAHLFDLNCKICTGQVPSSEDEPAPKKQKVS ASARKEDSKPVLGSPAPEPGLSSADDLVPDALPKHASEPDLGGAAQAHLEGTHPPVPAGDTPPAPAT LEDPPGPAPGGGSVLTTVTVSGRDPRTAPGAASTVTAPAAAQPPEPRPDPPKPVATSVTVPKSILAKPS TPPSPDTSCPSLRLRAPASRSRGRLPMETPPSSCLGSAPSGKGSLTCRASRNLSRKRIPSLGVLTTSVRTCP TRSTSAGGSPPGRSGITWASSSLPCPRSCV	
33	Uncharacterized protein	A0A4X1SJ53	No data	The same (21)	Match to KAAAAP at 478 MDEKGDPSSEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEPEALEQPPPQQGLSLRRSGRQPKR TERVEEFLTTVRRRGRRSAPAPLEEPGEPASCPLTDGDTASEGSVDSASDGKGGPKPGSSAVKERPASS KAKGGDDDEDDTSDSDSDGLTLKELQNRLRRKREQEPADRPPKGLQSRLRKKRREDPVETAGVEAA DAGEGSLPVKAEPEADQGAASPAAEDDREGELQGPAAPGGREQERGGPGRPKPECEVYDPSALYCIC RQPHNNRFMICCDRCEEWFHGDCVGISEARGRLLERNGEDYICPHCTILQVQDERSAESAGPQAAGP RPADADGADLTSVGTVEQTSGGDQGIKGRIEKAANPSGKKKLKIFQPVVEAPGAAKCIGPGCSSAAQ PDSVYCSSDCILKHAAATMRLLSAGKEPKPKPKEKGKTKPERLILQKCTVQAGIKVAPVHKRPAPDRK ENAAKKAAAAPPRSESLAPEPASESSTPSWASDHNYNAVKPERTAAPRPPLLCKSGKEDRRVEKVVA AAAPKKGAPPGSSGGGKQPAPRNLLPKKSPPFANAATARPAIRKSPSGFKGTVPKRPWLSAAPSGAG PAAKQAGLAPGAASSAPKKFPGPAASAAAVKKPLPASAPLASPALGRLVPSSPASSQPNSQIRQNIRR SLKEILWRRAADSDDLVMTESEVGRVALRIEKEMFGLFRVTDSRYKSKYRSLMFNLKDPKNQGLFHR VLREDISLAKLVRMKPEELVSKELSVWKERPAKAVMEPRAKLHSESKKPAAKQETAPDLGDSPPVSDS DEQQEAVRAAPERSAAPLDVFSSMLTDTTSQHRAHLFDLNCKICTGQVPSSEDEPAPKKQKVSASAR KEDSKPVLGSPAPEPGLSSADDLVPDALPKHASEPDLGGAAQAHLEGTHPPVPAGDTPPAPATLEDP PGPAPGGGSVLTTVTVSGRDPRTAPGAASTVTAPAAAQPPEPRPDPPKPVATSVTVPKSILAKPSTPPS PDTSCPSLRLRAPGEASTRPDEPPRVLFLGDGKGQHERVRGPAPRAAREDGFPQFRVSGRRLKASVLG RLTSTLETDLENCSLCP	90% with A0A287AIZ5 (21) and A0A480UG25 (22)
				NLHLP		
1	Steroid 21-hydroxylase	P15540	Low in endocardial endothelium (41.74)	GO:0103069 GO:0020037 GO:0005506 GO:0106309 GO:0004509 GO:0005496 GO:0008395 GO:0006704 GO:0006694 GO:0008202	Match to NLHLP at 27 MVLVWLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQ DVVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSS MEPRVEQLTQEFCERMRAQAGTPVTIQKEFSVLTCSIICCLTFGDKEDTLVHALHDCVQDLMKTWEH WSIQILDMVPFLRFFPSPGLRRLKQAIENRDHLVEKQLRRHKESMVAGQWRDMLDYMLQEAGRQRV EEGQGQLLEGHVHMSVVDLFIGGTETTANTLSWAVVYLLHHPEIQWRLQEELDRELGPGAAGSRVP YKDRARLPLLNATIAEVLRLRPVVPLALPHRATRPSSIFGYDIPEGTVVIPNLQGAHLDETVWEQPHEF RPDRFLAPGANPSALAFGCGARVCLGEPLARLELFVVLVQLLQAFTLLPPEGALPSLQPHPHSGINLK VQPFQVRLQPRGGRGEGPGPR	
2	Alpha-1-antitrypsin	P50447	No data	GO:0004867 GO:0010951	Match to NLHLP at 312 MASSSTWGLLLLAGLCCLVPISLAEGLQGHAVQETDVPRHDHEQHQEAACHRIAPNLADFAFSLYR QVARQSNTSNIFLSPVTIARAFAMLSLGTKGATHAEILEGLQFNLTEKAEAEIHEGFQHLLHTLNQPD NQLQLTTGNGLFIDEKAKLVPKFLEDVKNLYHSEAFSINFRDTEEAKKCINDYVEKGSQGKIVDLVDE	

					LDKDTVFALVNYIFFKGKWEKPFEVEQTTEEDFHVDEETTVKVPMMNRLGMFDLHHCDKLSSWVLL MDYVATATAFFILPDQGKLHQLEDMLTKEIRAKFLEKRYPSSANLHLPKLTISGTYDLKSLLGNLGITK VFSDEADLSGVTEEQPLKLSKALHRAVLTIDEKGTEATGATILEAIPMSIPPNVKFNKPFLFLIYDTKTK AVLFMGKVMNPTQK	
3	Alpha-1-antitrypsin	F1SCF0	Low in heart (45.04)	GO:0042802 GO:0002020 GO:0004867 GO:0010951	Match to NLHLP at 311 MASSSTWGLLLLAGLCCLVPISLAEGLQGHAVQETDVPRHDHEQHQEAACHRIAPNLADFAFSLYR QVARQSNTSNIFLSPVSIATAFAMLSLGTKGATHAEILEGLQFNLTEKAEAEIHEGFQHLLHTLNQPD NQLQLTTGNGLFVDKKAKLVPKFLEDVKNLYHSEAFSINFRDTEEAKKCINDYVEKGSQGKIVDLVD ELDKDTVFALVNYIFFKGKWEKPFEVEQTTEEDFHVDEETTVKVPMMNRLGMFDLHHCEKLSSWVL LMDYVGNATAFFILPDGKLHQLEDMLTKEILAKFLEKRYPSSANLHLPKLTISGTYDLKSLLGNLGITK VFSDEADLSGVTEEQPLKLSKALHRAVLTIDEKGTEATGATILEAIPMSIPPNVKFNKPFLFLIYDTKTK AVLFMGKVMNPTQK	90% with P50447 (2)
4	Alpha-1-antitrypsin	A0A4X1SHV8	No data	No data	Match to NLHLP at 312 MASSSTWGLLLLAGLCCLVPISLAEGLQGHAVQETDVPRHDHEQHQEAACHRIAPNLADFAFSLYR QVARQSNTSNIFLSPVSIATAFAMLSLGTKGATHAEILEGLQFNLTEKAEAEIHEGFQHLLHTLNQPD NQLQLTTGNGLFIDEKAKLVPKFLEDVKNLYHSEAFSINFRDTEEAKKCINDYVEKGSQGKIVDLVDE LDKDTVFALVNYIFFKGKWEKPFEVEQTTEEDFHVDEETTVKVPMMNRLGMFDLHHCDKLSSWVLL MDYVGNATAFFILPDQGKLHQLEDMLTKEILAKFLEKRYPSSANLHLPKLTISGTYDLKSLLGNLGITK VFSDEADLSGVTEEQPLKLSKGNGIFHHMGLSAAGGPVQPGPWLPASIQACHLQAPTLLQHSSQTGQ LYLQIVPRTGLSVQKQHHLLPREHRFSLSDALPGDQRGHSYPDPVGHRLQV	
5	Alpha-1-antitrypsin	A0A481ATB2	No data	No data	Match to NLHLP at 312 MASSSTWGLLLLAGLCCLVPISLAEGLQGHAVQETDVPRHDHEQHQEAACH RIAPNLADFAFSLYRQVARQSNTSNIFLSPVSIATAFAMLSLGTKGATHAEILE GLQFNLTEKAEAEIHEGFQHLLHTLNQPDNQLQLTTGNGLFIDEKAKLVPKF LEDVKNLYHSEAFSINFRDTEEAKKCINDYVEKGSQGKIVDLVDELDKDTVFA LVNYIFFKGKWEKPFEVEQTTEEDFHVDEETTVKVPMMNRLGMFDLHHCEK LSSWVLLMDYVGNAPAFFILPDQGKLHQLEDMLTKEILAKFLEKRYPSSANL HLPKLTISGTYDLKSLLGNLGITKVFSDEADLSGVTEEQQPLKLSKALHKAVLD LSENGTDHGGDILSKDTRWSNHQTISFNVPFLILIKDENTNIPLFMGRVVNPL QN	90% with P50447 (2)
6	Alpha-1-antitrypsin	A0A4X1SHX2	No data	No data	Match to NLHLP at 312 MASSSTWGLLLLAGLCCLVPISLAEGLQGHAVQETDVPRHDHEQHQEAACH RIAPNLADFAFSLYRQVARQSNTSNIFLSPVSIATAFAMLSLGTKGATHAEILE GLQFNLTEKAEAEIHEGFQHLLHTLNQPDNQLQLTTGNGLFIDEKAKLVPKF LEDVKNLYHSEAFSINFRDTEEAKKCINDYVEKGSQGKIVDLVDELDKDTVFA LVNYIFFKGKWEKPFEVEQTTEEDFHVDEETTVKVPMMNRLGMFDLHHCDK LSSWVLLMDYVGNATAFFILPDQGKLHQLEDMLTKEILAKFLEKRYPSSANL HLPKLTISGTYDLKSLLGNLGITKVFSDEADLSGVTEEQPLKLSKALHRAVLTI DEKGTEATGATILEAIPMSIPPNVKFNKPFLFLIYDTKTKAVLFMGKVMNPTQ K	90% with P50447 (2)

7	Cytochrome P450 21-hydroxylase (фрагмент)	Q6B7Q0	No data	GO:0020037 GO:0005506 GO:0016705	Match to NLHLP at 27 MVLVGLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQD VVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKFTRSALLLGVRSSM EPRVEQLTQEFCE	
8	Cytochrome P450 21-hydroxylase (фрагмент)	Q6B7P9	No data	The same (7)	Match to NLHLP at 27 MVLVGLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQD VVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSSM EPRVEQLTQEFCE	90% with Q6B7Q0 (7)
9	Cytochrome P450 21-hydroxylase (фрагмент)	Q6B7Q2	No data	The same (7)	Match to NLHLP at 27 MVLVGLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQD VVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKFTRSALLLGVRSSM EPRVEQLTQEFCERMRAQAGTPVTIQKEFSVLTCS	90% with Q6B7Q0 (7)
10	Cytochrome P450 21-hydroxylase (фрагмент)	Q6B7Q1	No data	The same (7)	Match to NLHLP at 27 MVLVWLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQ DVVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSS MEPRVEQLTQEFCE	90% with P15540 (1)
11	Cytochrome P450 21-hydroxylase (фрагмент)	Q6B7P7	No data	The same (7)	Match to NLHLP at 27 MVLVWLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQ DVVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSS MEPRVEQLTQEFCERMRAQAGTPVTIQKEFSVLTCS	100% with Q6B7Q1 (10) 90% with P15540 (1)
12	Cytochrome P450 21-hydroxylase (фрагмент)	Q6B7P8	No data	The same (7)	Match to NLHLP at 27 MVLVGLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQD VVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSSM EPRVEQLTQEFCERMRAQAGTPVTIQKEFSVLTCS	100% with Q6B7P9 (8) 90% with Q6B7Q0 (7)
13	Cytochrome P450, family 21, subfamily A, polypepide 2	A5A8W7	Low in endocardial endothelium (41.74)	The same (7) + GO:0004497	Match to NLHLP at 27 MVLVWLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQ DKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSSMEPRVEQLTQEFCERMRAQAGTPVTIQKEF SVLTCSIICCLTFGDKVKEDTLVHALHDCVQDLMKTWEHWSIQILDMVPFLRFFPSPGLRRLKQAIEN RDHLVEKQLRRHKESMVAGQWRDMLDYMLQEAGRQRVEEGQGQLLEGHVHMSVVDLFIGGTETT ANTLSWAVVYLLHHPEIQWRLQEELDRELGPGAAGSRVPYKDRARLPLLNATIAEVLRLRPVVPLAL PHRATRPSSIFGYDIPEGTVVIPNLQGAHLDETVWEQPHEFRPDRFLAPGANPSALAFGCGARVCLGE PLARLELFVVLVQLLQAFTLLPPEGALPSLQPHPHSGINLKVQPFQVRLQPRGGRGEGPGPR	
14	Cytochrome P450, family 21, subfamily A, polypepide 2	A5A8W5	The same (13)	The same (13)	Match to NLHLP at 27 MVLVWLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQ DVVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSS MEPRVEQLTQEFCERMRAQAGTPVTIQKEFSVLTCSIICCLTFGDKEDTLVHALHDCVQDLMKTWEH WSIQILDMVPFLRFFPSPGLRRLKQAIENRDHLVEKQLRRHKESMVAGQWRDMLDYMLQEAGRQRV EEGQGQLLEGHVHMSVVDLFIGGTETTANTLSWAVVYLLHHPEIQWRLQEELDRELGPGAAGSRVP YKDRARLPLLNATIAEVLRLRPVVPLALPHRATRPSSIFGYDIPEGTVVIPNLQGAHLDETVWEQPHEF RPDRFLAPGANPSALAFGCGARVCLGEPLARLELFVVLVQLLQAFTLLPPEGALPSLQPHPHSGINLK VQPFQD	90% with P15540 (1), Q6B7Q1 (10) and Q6B7P7 (11)

15	Protein kinase domain-containing protein	A0A4X1WBG5	No data	GO:0004672 GO:0005524 GO:0006468	Match to NLHLP at 146 MDRSKRNSIAGFPPRVERLEDFEGGGGGGDGSLSHVGRVWPSSYRALISAFSRLTRLDDFTCEKIGSGF FSEVFKVRHRASGQVMALKMNTLSSNRANMLKEVQLMNRLSHPNILRFMGVCVHQGQLHALTEYI NSGNLEQLLDSNLHLPWTVRVKLAYDIAVGLSYLHFKGIFHRDLTSKNCLIKRDESGYSAVVADFGLA EKIPDGSMGSEKLAVVGSPFWMAPEVLRDEPYNEKADVFSYGIILCEIIARIQADPDYLPRTEMDPKLR PSFAEIGKTLEEILSRLQEEELERDRKLQPAAKGLLEKGPGLKRLSLQDNKIPPKSPRPRRTIWLSRSQSD IFSSKPPRTVNVLDPYYQPRGGAARAPKINPFSARQDLKGGKIKFFDLPSKSVISLVFDLDAPGPGSTPV AEWQEPLAPPARRWRSLPGSPEFLHQEACPFVGEESLSDGPPPRLSSHKYRVREIPPFRAPALPAAPAH EAMDCSGPQEENGFGPRPPGPGLCLAGALEEMEVEERPRDLAVSGTGLKTQGEQDG	
16	Protein kinase domain-containing protein	A0A4X1WA11	No data	The same (15)	Match to NLHLP at 146 MDRSKRNSIAGFPPRVERLEDFEGGGGGGDGSLSHVGRVWPSSYRALISAFSRLTRLDDFTCEKIGSGF FSEVFKVRHRASGQVMALKMNTLSSNRANMLKEVQLMNRLSHPNILRFMGVCVHQGQLHALTEYI NSGNLEQLLDSNLHLPWTVRVKLAYDIAVGLSYLHFKGIFHRDLTSKNCLIKRDESGYSAVVADFGLA EKIPDGSMGSEKLAVVGSPFWMAPEVLRDEPYNEKADVFSYGIILCEIIARIQADPDYLPRTENFGLDY DAFQHMVGDCPPDFLQLTFNCCNMDPKLRPSFAEIGKTLEEILSRLQEEELERDRKLQPAAKGLLEKG PGLKRLSLQDNKIPPKSPRPRRTIWLSRSQSDIFSSKPPRTVNVLDPYYQPRGGAARAPKINPFSARQDL KGGKIKFFDLPSKSVISLVFDLDAPGPGSTPVAEWQEPLAPPARRWRSLPGSPEFLHQEACPFVGEESLS DGPPPRLSSHKYRVREIPPFRAPALPAAPAHEAMDCSGPQEENGFGPRPPGPGLCLAGALEEMEVEER PRDLAVSGTGLKTQGEQDG	
17	DNA-directed RNA polymerase subunit	A0A4X1SL14	Medium-low in heart left ventricle	GO:0003677 GO:0003899 GO:0006351	Match to NLHLP at 400 MICKTCCHIMLSQEERKQFLDYLKRPGLTYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLK IIHEKYKTNKKVVDPIVSNFLQSFETAIEHNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPE AGKPSDLILTRLLVPPLCIRPSVVSDLKSGTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFL QLQCALYINSELSGIPLNMAPKKWTRGFVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVA VPVHVAKILTFPEKVNKANITFLRKLVRNGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFG DIVERHLIDGDVVLFNRQPSLHKLSIMAHLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEE AKAEALVLMGTKANLVTPRNGEPLIAAIQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRL PPPTILKPVTLWTGKQVFSVILRPSYDNPVRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMD KGTLGSGSKNNIFYILLRDWGQNEAADAMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLN AGYRKCDEYIEALNTGKLQQQPGCTAEETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSK GSFINISQMIACVGQQAISGSRVPDGFENRSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGR EGLVDTAVKTAETGYMQRRLVKSLEDLCSQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKR VLDNIKAVFPCQSEPALSKNELLLTTESIMKKNEFLCCQDSFLQEIKKFIKGVSEKIKKTRDKYGINDNG TTEPRVLYQLDRITPTQIEKFLETCRDKYMRAQMEPGSAVGALCAQSIGEPGTQMTLKTFHFAGVASM NITLGVPRIKEIINASKAISTPIITAQLDKDDDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILIKLSLE RIRLLRLEVNAETVRYSICMSKLRVKPGDVAVHGEAVVCVTPRENSKSSMYYVLQFLKEDLPKVVVQ GIPEVSRAVIHIDEQSGKEKYKLLVEGDNLRAVMATHGVKGTQTTSNNTYEVEKTLGIEAARTTIINEI QYTMVNHGMSIDRRHVMLLSDLMTYKGEVLGITRFGLAKMKESVLMLASFEKTADHLFDAAYFGQ KDSVCGVSECIIMGIPMNIGTGLFKLLHKANRDPSPPRRPLIFDTDEFHIPLVT	
18	DNA-directed RNA polymerase subunit	A0A286ZSI9	The same (17)	The same (17)+ GO:0003682 GO:0045087 GO:0032728	Match to NLHLP at 506 MVKEQFRETDVAKKISHICFGMKSAEEMRQQAHIQVVSKNLYSQDNNHSPLLYGVLDHRMGTSEKD RPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEERKQFLDYLKRPGL TYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIE HNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDLKS GTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRG FVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANITFLRKLVR NGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFGDIVERHLIDGDVVLFNRQPSLHKLSIMA HLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIAA	

					IQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQVFSVILRPSYDNP VRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMDKGTLGSGSKNNIFYILLRDWGQNEAAD AMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLNAGYRKCDEYIEALNTGKLQQQPGCTAE ETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSKGSFINISQMIACVGQQAISGSRVPDGFEN RSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLC SQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCQSEPALSKNELLLTTESIM KKNEFLCCQDSFLQTLTETGYEKYNEEIKKFIKGVSEKIKKTRDKYGINDNGTTEPRVLYQLDRITPTQI EKFLETCRDKYMRAQMEPGSAVGALCAQSIGEPGTQMTLKTFHFAGVASMNITLGVPRIKEIINASKA ISTPIITAQLDKDDDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILIKLSLERIRLLRLEVNAETVRYSI CMSKLRVKPGDVAVHGEAVVCVTPRENSKSSMYYVLQFLKEDLPKVVVQGIPEVSRAVIHIDEQSGK EKYKLLVEGDNLRAVMATHGVKGTQTTSNNTYEVEKTLGIEAARTTIINEIQYTMVNHGMSIDRRHV MLLSDLMTYKGEVLGITRFGLAKMKESVLMLASFEKTADHLFDAAYFGQKDSVCGVSECIIMGIPMNI GTGLFKLLHKANRDPSPPRRPLIFDTDEFHIPLVT	
19	DNA-directed RNA polymerase subunit	A0A4X1SK18	No data	The same (17)	Match to NLHLP at 506 MVKEQFRETDVAKKISHICFGMKSAEEMRQQAHIQVVSKNLYSQDNNHSPLLYGVLDHRMGTSEKD RPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEERKQFLDYLKRPGL TYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIE HNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDLKS GTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRG FVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANITFLRKLVR NGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFGDIVERHLIDGDVVLFNRQPSLHKLSIMA HLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIAA IQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQVFSVILRPSYDNP VRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMDKGTLGSGSKNNIFYILLRDWGQNEAAD AMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLNAGYRKCDEYIEALNTGKLQQQPGCTAE ETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSKGSFINISQMIACVGQQAISGSRVPDGFEN RSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLC SQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCQSEPALSKNELLLTTESIM KKNEFLCCQDSFLQEIKKFIKGVSEKIKKTRDKYGINDNGTTEPRVLYQLDRITPTQIEKFLETCRDKYM RAQMEPGSAVGALCAQSIGEPGTQMTLKTFHFAGVASMNITLGVPRIKEIINASKAISTPIITAQLDKD DDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILIKLSLERIRLLRLEVNAETVRYSICMSKLRVKPGD VAVHGEAVVCVTPRENSKSSMYYVLQFLKEDLPKGEVLGITRFGLAKMKESVLMLASFEKTADHLFD AAYFGQKDSVCGVSECIIMGIPMNIGTGLFKLLHKANRDPSPPRRPLIFDTDEFHIPLVT	
20	DNA-directed RNA polymerase subunit	A0A4X1SJU1	The same (17)	The same (17)	Match to NLHLP at 506 MVKEQFRETDVAKKISHICFGMKSAEEMRQQAHIQVVSKNLYSQDNNHSPLLYGVLDHRMGTSEKD RPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEERKQFLDYLKRPGL TYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIE HNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDLKS GTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRG FVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANITFLRKLVR NGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFGDIVERHLIDGDVVLFNRQPSLHKLSIMA HLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIAA IQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQVFSVILRPSYDNP VRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMDKGTLGSGSKNNIFYILLRDWGQNEAAD AMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLNAGYRKCDEYIEALNTGKLQQQPGCTAE ETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSKGSFINISQMIACVGQQAISGSRVPDGFEN RSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLC SQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCQSEPALSKNELLLTTESIM	100% with A0A4X1SL14 (17); 90% with A0A286ZSI9 (18)

					KKNEFLCCQDSFLQEIKKFIKGVSEKIKKTRDKYGINDNGTTEPRVLYQLDRITPTQIEKFLETCRDKYM RAQMEPGSAVGALCAQSIGEPGTQMTLKTFHFAGVASMNITLGVPRIKEIINASKAISTPIITAQLDKD DDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILIKLSLERIRLLRLEVNAETVRYSICMSKLRVKPGD VAVHGEAVVCVTPRENSKSSMYYVLQFLKEDLPKVVVQGIPEVSRAVIHIDEQSGKEKYKLLVEGDNL RAVMATHGVKGTQTTSNNTYEVEKTLGIEAARTTIINEIQYTMVNHGMSIDRRHVMLLSDLMTYKGE VLGITRFGLAKMKESVLMLASFEKTADHLFDAAYFGQKDSVCGVSECIIMGIPMNIGTGLFKLLHKAN RDPSPPRRPLIFDTDEFHIPLVT	
21	DNA-directed RNA polymerase subunit	A0A4X1V3A0	No data	The same (17)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNPVMGI VQDTLTAVRKFTKRDVFLERVCGPTGDLAW	
22	DNA-directed RNA polymerase subunit	A0A286ZPB2	The same (17)	The same (17)	Match to NLHLP at 400 MICKTCCHIMLSQEERKQFLDYLKRPGLTYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLK IIHEKYKTNKKVVDPIVSNFLQSFETAIEHNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPE AGKPSDLILTRLLVPPLCIRPSVVSDLKSGTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFL QLQCALYINSELSGIPLNMAPKKWTRGFVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVA VPVHVAKILTFPEKVNKANITFLRKLVRNGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFG DIVERHLIDGDVVLFNRQPSLHKLSIMAHLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEE AKAEALVLMGTKANLVTPRNGEPLIAAIQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRL PPPTILKPVTLWTGKQVFSVILRPSYDNPVRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMD KGTLGSGSKNNIFYILLRDWGQNEAADAMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLN AGYRKCDEYIEALNTGKLQQQPGCTAEETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSK GSFINISQMIACVGQQAISGSRVPDGFENRSLPHFEKHSKLPAAKFVANSFYSGLTPTEFFFHTMAGRE GLVDTAVKTAETGYMQRRLVKSLEDLCSQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRV LDNIKAVFPCQSEPALSKNELLLTTESIMKKNEFLCCQDSFLQEIKKFIKGVSEKIKKTRDKYGINDNGT TEPRVLYQLDRITPTQIEKFLETCRDKYMRAQMEPGSAVGALCAQSIGEPGTQMTLKTFHFAGVASM NITLGVPRIKEIINASKAISTPIITAQLDKDDDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILIKLSLE RIRLLRLEVNAETVRYSICMSKLRVKPGDVAVHGEAVVCVTPRENSKSSMYYVLQFLKEDLPKVVVQ GIPEVSRAVIHIDEQSGKEKYKLLVEGDNLRAVMATHGVKGTQTTSNNTYEVEKTLGIEAARTTIINEI QYTMVNHGMSIDRRHVMLLSDLMTYKGEVLGITRFGLAKMKESVLMLASFEKTADHLFDAAYFGQ KDSVCGVSECIIMGIPMNIGTGLFKLLHKANRDPSPPRRPLIFDTDEFHIPLVT	100% with A0A4X1SJU1 (20) and A0A4X1SL14 (17) 90% with A0A4X1SL14 (17), A0A286ZSI9 (18) and A0A4X1SJU1 (20)
23	DNA-directed RNA polymerase subunit	A0A480MHM1	No data	The same (17)	Match to NLHLP at 506 MVKEQFRETDVAKKISHICFGMKSAEEMRQQAHIQVVSKNLYSQDNNHSPLLYGVLDHRMGTSEKD RPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEERKQFLDYLKRPGL TYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIE HNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDLKS GTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRG FVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANITFLRKLVR NGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFGDIVERHLIDGDVVLFNRQPSLHKLSIMA HLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIAA IQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQVFSVILRPSYDNP VRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMDKGTLGSGSKNNIFYILLRDWGQNEAAD	

					AMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLNAGYRKCDEYIEALNTGKLQQQPGCTAE ETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSKGSFINISQMIACVGQQAISGSRVPDGFEN RSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLC SQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCQSEPALSKNELLLTTESIM KKNEFLCCQDSFLQVSSEGPCAQFDCHRGIVHQVLAGTSLSWGY	
24	DNA-directed RNA polymerase subunit	F1S2E6	Medium-low in heart (59.15), endocardial endothelium (58.34), heart left ventricle (55.38)	The same (17)	Match to NLHLP at 506 MVKEQFRETDVAKKISHICFGMKSAEEMRQQAHIQVVSKNLYSQDNNHSPLLYGVLDHRMGTSEKD RPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEERKQFLDYLKRPGL TYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIE HNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDLKS GTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRG FVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANITFLRKLVR NGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFGDIVERHLIDGDVVLFNRQPSLHKLSIMA HLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIAA IQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQVFSVILRPSYDNP VRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMDKGTLGSGSKNNIFYILLRDWGQNEAAD AMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLNAGYRKCDEYIEALNTGKLQQQPGCTAE ETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSKGSFINISQMIACVGQQAISGSRVPDGFEN RSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLC SQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCQSEPALSKNELLLTTESIM KKNEFLCCQDSFLQEIKKFIKGVSEKIKKTRDKYGINDNGTTEPRVLYQLDRITPTQIEKFLETCRDKYM RAQMEPGSAVGALCAQSIGEPGTQMTLKTFHFAGVASMNITLGVPRIKEIINASKAISTPIITAQLDKD DDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILIKLSLERIRLLRLEVNAETVRYSICMSKLRVKPGD VAVHGEAVVCVTPRENSKSSMYYVLQFLKEDLPKVVVQGIPEVSRAVIHIDEQSGKEKYKLLVEGDNL RAVMATHGVKGTQTTSNNTYEVEKTLGIEAARTTIINEIQYTMVNHGMSIDRRHVMLLSDLMTYKGE VLGITRFGLAKMKESVLMLASFEKTADHLFDAAYFGQKDSVCGVSECIIMGIPMNIGTGLFKLLHKAN RDPSPPRRPLIFDTDEFHIPLVT	100% with A0A4X1SJU1 (20), A0A4X1SL14 (17) and A0A286ZPB2 (22); 90% with A0A4X1SL14 (17), A0A286ZSI9 (18), A0A4X1SJU1 (20) and A0A286ZPB2 (22)
25	DNA-directed RNA polymerase subunit	A0A481CFL6	No data	GO:0046872 GO:0006366	Match to NLHLP at 425 MTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKGQPKKRLTHV YDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAEWKHVNEDSQ EKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGSARNQDDLTH KLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSGRPLKSLKQRL KGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRLQELVRRGNS QYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSMMGHRVRILP WSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMGIVQDTLTAV RKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRTHSTHPDDED SGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQTVINNWLLIEG HTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNRILNDARDKT GSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIKDDYGPESRG FVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVRNSINQVVQL RYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAHIQNELEREFE RMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKELSKKLVIVNG DDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGEMVGALAA QSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAERAKDILCRL EHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRKHMTDRKLT MEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFLRCIESNML TDMTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDPVRTTSNDI VEIFTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQDTGPLMK	

					CSFEETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPTNIPGLGA AGPTGMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDASGFSPGY SPAWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSPSYSPTSPN YSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPNYSPTSPNY TPTSPSYSPTSPSYSPTSPNYTPTSPNYSPTSPSYSPTSPSYSPTSPSYSPSSPRYTPQSPTYTPSSPSYSPSSPSY SPTSPKYTPTSPSYSPSSPEYTPTSPKYSPTSPKYSPTSPKYSPTSPKYSPTSPTYSPTTPKYSPTSPTYSPTSPVYTPTSPK YSPTSPTYSPTSPKYSPTS	
26	DNA-directed RNA polymerase subunit	A0A480L5T3	No data	The same (25)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMG IVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRT HSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQT VINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNR ILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIK DDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVR NSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAH IQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKEL SKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGE MVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAE RAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFL RCIESNMLTDMTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDP VRTTSNDIVEIFTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQ DTGPLMKCSFEETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPT NIPGLGAAGPTGMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDA SGFSPGYSPAWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSP SYSPTSPNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPS YSPTSPSYSPTSPNYSPTSPNYTPTSPSYSPTSPSYSPTSPNYTPTSPNYSPTSPSYSPTSPSYSPTSPSYSPSSP RYTPQSPTYTPSSPSYSPSSPSYSPTSPKYTPTSPSYSPSSPEYTPTSPKYSPTSPKYSPTSPKYSPTSPTYSPTT PKYSPTSPTYSPTSPVYTPTSPKYSPTSPTYSPTSPKYSPTSPTYSPTSPKGSTYSPTSPGYSPTSPTYSLTSPAI SPDDSDEEN	
27	DNA-directed RNA polymerase subunit	A0A480Z7V7	No data	The same (25)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMG IVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRT HSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQT	

					VINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNR ILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIK DDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVR NSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAH IQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKEL SKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGE MVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAE RAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFL RCIESNMLTDMTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDP VRTTSNDIVEIFTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQ DTGPLMKCSFEETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPT NIPGLGAAGPTGMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDA SGFSPGYSPAWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSP SYSPTSPNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSDLPQLLAHLAQLLTHFSQLL AHLAQLLAHLPQLLAHLAQLLTHFSQLLANFPQLLAHLAQLLAHISQLLSDIPQLLTNFPQLLTHQP	
28	DNA-directed RNA polymerase subunit	A0A480J736	No data	The same (17)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMG IVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRT HSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQT VINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNR ILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIK DDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVR NSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAH IQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKEL SKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGE MVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAE RAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAEEFCEKDRKAKREPRMGCGCKRSRFSQVSVT	
29	DNA-directed RNA polymerase subunit	A0A480H8S4	No data	The same (17)	Match to NLHLP at 506 MVKEQFRETDVAKKISHICFGMKSAEEMRQQAHIQVVSKNLYSQDNNHSPLLYGVLDHRMGTSEKD RPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEERKQFLDYLKRPGL TYLQKRGLKKKISDKCRKKNTCHHCGAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIE HNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDIPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDLKS GTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRG FVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANITFLRKLVR NGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKFGDIVERHLIDGDVVLFNRQPSLHKLSIMA HLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIAA IQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQVFSVILRPSYDNP VRANLRTKGKQYCGKGEDLCVNDSYVTIQNSELMSGSMDKGTLGSGSKNNIFYILLRDWGQNEAAD AMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLNAGYRKCDEYIEALNTGKLQQQPGCTAE	90% with A0A480MHM1 (23)

					ETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSKGSFINISQMIACVGQQAISGSRVPDGFEN RSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLC SQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCQSEPALSKNELLLTTESIM KKNEFLCCQDSFLQVSSEGPCAQFDCHRGIVHQVLAGTSLSWGC	
30	DNA-directed RNA polymerase subunit	A0A480NXX2	No data	The same (17)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMG IVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRT HSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQT VINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNR ILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIK DDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVR NSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAH IQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKEL SKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGE MVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAE RAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGEAGGLLSRPPPVPSLCAPPRQAIHTPPSMPWFCSRPLCTAFSFSRFPLLLS RRVL	90% with A0A480J736 (28)
31	DNA-directed RNA polymerase subunit	A0A480TA59	No data	The same (25)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMG IVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRT HSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQT VINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNR ILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIK DDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVR NSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAH IQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKEL SKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGE MVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAE RAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFL RCIESNMLTDMTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDP VRTTSNDIVEIFTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQ DTGPLMKCSFEETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPT	

					NIPGLGAAGPTGMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDA SGFSPGYSPAWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSP SYSPTSPNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPS YSPTSPNYSPTSPNYTPTSPSYSPTSPSYSPTSPNYTPTSPNYSPTSPSYSPTSPSYSPTSPSYSPSSPRYTPQSP TYTPSSPSYSPSSPSYSPTSPKYTPTSPSYSPSSPEYTPTSPKYSPTSPKYSPTSPKYSPTSPTYSPTTPKYSPTSP TYSPTSPVYTPTSPKYSPTSPTYSPTSPKYSPTSPTYSPTSPKGSTYSPTSPGYSPTSPTYSLTSPAISPDDSDE EN	
32	DNA-directed RNA polymerase subunit	A0A480UVG4	No data	The same (25)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQAWAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSK GQPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYA EWKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQG SARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMG IVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRT HSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQT VINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNR ILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIK DDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVR NSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAH IQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKEL SKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGE MVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAE RAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFL RCIESNMLTDMTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDP VRTTSNDIVEIFTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQ DTGPLMKCSFEETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPT NIPGLGAAGPTGMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDA SGFSPGYSPAWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSP SYSPTSPNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPS YSPTSPSYSPTSPNYSPTSPNYTPTSPSYSPTSPSYSPTSPNYTPTSPNYSPTSPSYSPTSPSYSPTSPSYSPSSP RYTPQSPTYTPSSPSYSPSSPSYSPTSPKYTPTSPSYSPSSPEYTPTSPKYSPTSPKYSPTSPKYSPTSPTYSPTT PKYSPTSPTYSPTSPVYTPTSPKYSPTSPTYSPTSPKYSPTSPTYSPTSPKGSTYSPTSPGYSPTSPTYSLTSPAI SPDDSDEEN	
33	DNA-directed RNA polymerase subunit	A0A5G2RA15	No data	The same (17)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVPQSNRPVMGI VQDTLTAVRKFTKRDVFLERVCGPTGDLAW	90% with A0A4X1V3A0 (21)

34	DNA-directed RNA polymerase subunit	A0A4X1V400	No data	The same (25)	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIEQSPVMGIVQD TLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRTHSTH PDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQTVINN WLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNRILND ARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIKDDY GPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRLIKSMESVMVKYDATVRNSIN QVVQLRYGEDGLGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAHIQNEL ERFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKELSKKLVI VNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGEMVGA LAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAERAKDI LCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARIPWLLRVELDRKHMTDR KLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFLRCIESN MLTDMTLQVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDPVRTTSNDIVEIF TVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQDTGPLMKCSFE ETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPTNIPGLGAAGPT GMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDASGFSPGYSPAW SPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTPSYSPTSPSYSPTSPNYSPTS PSYSPTSPSYSPTSPSYSPTSPYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPYSPTSPSYSPTSPSYSPTSPSYS PTSPSYSPTSPSYSPTSPSYSPTSPNYSPTSPNYTPTSPSYSPTSPSYSPTSPNYTPTPNYSPTSPSYSPTSPSYS PTSPSYSPSSPRYTPQSPTYTPSSPSYSPSSPSYSPTSPKYTPTSPSYSPSSPEYTPTSPKYSPTSPKYSPTSPKYS PTSPTYSPTTPKYSPTSPTYSPTSPVYTPTPKYSPTSPTYSPTSPKYSPTSPTYSPTSPKGSTYSPTSPGYSPTS PTYSLTSPAISPDDSDEEN	
35	DNA-directed RNA polymerase subunit	A0A7M4DUC2	No data	No data	Match to NLHLP at 502 MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKG QPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAE WKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGS ARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSG RPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRL QELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSM MGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMG IVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRT HSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQT VINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNR ILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIK DDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVR NSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAH IQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKEL SKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGE MVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAE	

					RAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRK HMTDRKLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFL RCIESNMLTDMTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDP VRTTSNDIVEIFTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQ DTGPLMKCSFEETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPT NIPGLGAAGPTGMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDA SGFSPGYSPAWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSP SYSPTSPNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPS YSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPNYSPTSPNYTPTSPSYSPTSPS YSPTSPNYTPTSPNYSPTSPSYSPTSPSYSPTSPSYSPSSPRYTPQSPTYTPSSPSYSPSSPSYSPTSPKYTPTSPS YSPSSPEYTPTSPKYSPTSPKYSPTSPKYSPTSPTYSPTTPKYSPTSPTYSPTSPVYTPTSPKYSPTSPTYSPTSP KYSPTSPTYSPTSPKGSTYSPTSPGYSPTSPTYSLTSPAISPDDSDEEN	
36	Testis associated actin 29emodeling kinase 2	A0A287AGE1	Low in heart left ventricle	GO:0004672 GO:0005524 GO:0006468	Match to NLHLP at 146 MDRSKRNSIAGFPPRVERLEDFEGGGGGGDGSLSHVGRVWPSSYRALISAFSRLTRLDDFTCEKIGSGF FSEVFKVRHRASGQVMALKMNTLSSNRANMLKEVQLMNRLSHPNILRFMGVCVHQGQLHALTEYI NSGNLEQLLDSNLHLPWTVRVKLAYDIAVGLSYLHFKGIFHRDLTSKNCLIKRDESGYSAVVADFGLA EKIPDGSMGSEKLAVVGSPFWMAPEVLRDEPYNEKADVFSYGIILCEIIARIQADPDYLPRTEMDPKLR PSFAEIGKTLEEILSRLQEEELERDRKLQPAAKGLLEKGPGLKRLSLQDNKIPPKSPRPRRTIWLSRSQSD IFSSKPPRTVNVLDPYYQPQRGGAARAPKINPFSARQDLKGGKIKFFDLPSKSVISLVFDLDAPGPGSTP VAEWQEPLAPPARRWRSLPGSPEFLHQEACPFVGREESLSDGPPPRLSSHKYRVREIPPFRAPALPAAP AHEAMDCSGPQEENGFGPRPPGPGLCLAGALEEMEVEERPRDLAVSGTGLKTQGEQDG	90 % with A0A4X1WBG5 (15)
37	Dual specificity testis-specific protein kinase 2 isoform X1	F1S370	Low in heart (49.92), heart left ventricle (48.40) and endocardial endothelium (43.73)	The same (15,35) + GO:0004674 GO:0030036	Match to NLHLP at 146 MDRSKRNSIAGFPPRVERLEDFEGGGGGGDGSLSHVGRVWPSSYRALISAFSRLTRLDDFTCEKIGSGF FSEVFKVRHRASGQVMALKMNTLSSNRANMLKEVQLMNRLSHPNILRFMGVCVHQGQLHALTEYI NSGNLEQLLDSNLHLPWTVRVKLAYDIAVGLSYLHFKGIFHRDLTSKNCLIKRDESGYSAVVADFGLA EKIPDGSMGSEKLAVVGSPFWMAPEVLRDEPYNEKADVFSYGIILCEIIARIQADPDYLPRTENFGLDY DAFQHMVGDCPPDFLQLTFNCCNMDPKLRPSFAEIGKTLEEILSRLQEEELERDRKLQPAAKGLLEKG PGLKRLSLQDNKIPPKSPRPRRTIWLSRSQSDIFSSKPPRTVNVLDPYYQPQRGGAARAPKINPFSARQD LKGGKIKFFDLPSKSVISLVFDLDAPGPGSTPVAEWQEPLAPPARRWRSLPGSPEFLHQEACPFVGREE SLSDGPPPRLSSHKYRVREIPPFRAPALPAAPAHEAMDCSGPQEENGFGPRPPGPGLCLAGALEEMEV EERPRDLAVSGTGLKTQGEQDG	90 % with A0A4X1WBG5 (15) and A0A287AGE1 (35)
38	NCK-interacting protein with SH3 domain isoform 2	A0A480QVB2	No data	GO:0005515	Match to NLHLP at 554 MYRALYAFRSAEPNALAFAAGETFLVLERSSAHWWLAARARSGETGYVPPAYLRRLQGLEQDVLQA IDRAIEAVHNAAMRDGGKYSLEQRGVLQKLIHHRKETLSRRGPSAPSPAAMTSSTSDHHLDTAAARQ PNGVCRAGFERQHSLPSSEYLGADGGLYQIPPQPRRAAPTTPPPPVKRRDREALVASGSGGCNTTPSG GSSVSSGSSVSSTSLDTYYTGSSSSELGPSCSPTPPPVPRRSTHTTVSQAQPPPSKVPNPEPPAEEVAVDTA SAPDELEALGTLSLGTTEEKAAAETAVPRTIGAELMELVRRNTGLSHELCRVAIGVVVGHIQASVPASS PVMEQVLLSLVEGKDLSTALPSGQVCHDQQRLEVIFADLARRKDDAQQRSWALYEDEGVIRCYLEEL LHILTDADPEVCKKMCKRNEFESVLALVAYYQMEHRVSLRLLLLKCFGAMCSLDAAIISTLVSSVLPV ELARDMQTDTQDHQKLCYSALILAMIFSMGEAVPYAHYEHLGTPFAQFLLSIVEDGLPLDTTEQLPDL CMNLLLALNLHLPAPDQNIIMAALSKHANVKIFSEKLLLLLNRGDDPVRIFKHEPQPPHSILKFLQDV FASPATAAIFYHTDMMALIDITVRHIADLSPGDKLRMEYLSLMHAVVRSTPYLQHRHRLPDLQATLR RILTEEEASPQCQMDRMIVREMCKEFPVLGEAPS	
39	NCK interacting protein with SH3 domain	F1SKK3	Medium-low in heart (52.36) and	GO:0010976	Match to NLHLP at 555 MSRGKASAARRSWPGVLNPQTSPSLLPRPAPAQPGPSPCTARCTRSARRSPTRWRSPRARPSWCWSA AARTGGWRRGRAVARRATCRPPTCAACRKLIHHRKETLSRRGPSAPSPAAMTSSTSDHHLDTAAAR QPNGVCRAGFERQHSLPSSEYLGADGGLYQIPPQPRRAAPTTPPPPVKRRDREALVASGSGGCNTTPS GGSSVSSGSSVSSTSLDTYYTGSSSSELGPSCSPTPPPVPRRSTHTTVSQAQPPPSKVPNPEPPAEEVAVDT	

			endocardial endothelium (47.02)		ASAPDELEALGTLSLGTTEEKAAAETAVPRTIGAELMELVRRNTGLSHELCRVAIGVVVGHIQASVPA SSPVMEQVLLSLVEGKDLSTALPSGQVCHDQQRLEVIFADLARRKDDAQQRSWALYEDEGVIRCYLE ELLHILTDADPEVCKKMCKRNEFESVLALVAYYQMEHRVSLRLLLLKCFGAMCSLDAAIISTLVSSVLP VELARDMQTDTQDHQKLCYSALILAMIFSMGEAVPYAHYEHLGTPFAQFLLSIVEDGLPLDTTEQLPD LCMNLLLALNLHLPAPDQNIIMAALSKHANVKIFSEKLLLLLNRGDDPVRIFKHEPQPPHSILKFLQD VFASPATAAIFYHTDMMALIDITVRHIADLSPGDKLRMEYLSLMHAVVRSTPYLQHRHRLPDLQATL RRILTEEEASPQCQMDRMIVREMCKEFPVLGEAPS	
40	NCK interacting protein with SH3 domain	A0A5G2RIX3	No data	The same (38)	Match to NLHLP at 553 MYRALYAFRSAEPNALAFAAGETFLVLERSSAHWWLAARARSGETGYVPPAYLRRLQGLEQDVLQA IDRAIEAVHNAAMRDGGKYSLEQRGVLQKLIHHRKETLSRRGPSAPSPAAMTSSTSDHHLDTAAARQ PNGVCRAGFERQHSLPSSEYLGADGGLYQIPPQPRRAAPTTPPPPVKRRDREALVASGSGGCNTTPSG GSSVSSGSSVSSTSLDTYYTGSSSSELGPSCSPTPPPVPRRSTHTTVSQAQPPPSKVPNPEPPAEEVAVDTA SAPDELEALGTLSLGTTEEKAAAETAVPRTIGAELMELVRRNTGLSHELCRVAIGVVVGHIQASVPASS PVMEQVLLSLVEGKDLSTALPSGQVCHDQQRLEVIFADLARRKDDAQQRSWALYEDEGVIRCYLEEL LHILTDADPEVCKKMCKRNEFESVLALVAYYQMHRVSLRLLLLKCFGAMCSLDAAIISTLVSSVLPVE LARDMQTDTQDHQKLCYSALILAMIFSMGEAVPYAHYEHLGTPFAQFLLSIVEDGLPLDTTEQLPDLC MNLLLALNLHLPAPDQNIIMAALSKHANVKIFSEKLLLLLNRGDDPVRIFKHEPQPPHSILKFLQDVF ASPATAAIFYHTDMMALIDITVRHIADLSPGDKLRMEYLSLMHAVVRSTPYLQHRHRLPDLQATLRRI LTEEEASPQCQMDRMIVREMCKEFPVLGEAPS	90% with A0A480QVB2 (38)
41	SH3 domain-containing protein	A0A4X1T134	No data	The same (38)	Match to NLHLP at 559 MYRALYAFRSAEPNALAFAAGETFLVLERSSAHWWLAARARSGETGYVPPAYLRRLQGLEQDVLQA IDRAIEAVHNAAMRDGGKYSLEQRGVLQKLIHHRKETLSRRGPSAPSPAAMTSSTSDHHLDTAAARQ PNGVCRAGFERQHSLPSSEYLGADGGLYQIPLLSPIPPQPRRAAPTTPPPPVKRRDREALVASGSGGCN TTPSGGSSVSSGSSVSSTSLDTFYTGSSSSELGPSCSPTPPPVPRRSTHTTVSQAQPPPSKVPNPEPPAEEV AVDTASAPDELEALGALSLGTTEEKAAAETAVRTIGAELMELVRRNTGLSHELCRVAIGVVVGHIQAS VPASSPVMEQVLLSLVEGKDLSTALPSGQVCHDQQRLEVIFADLARRKDDAQQRSWALYEDEGVIRC YLEELLHILTDADPEVCKKMCKRNEFESVLALVAYYQMEHRVSLRLLLLKCFGAMCSLDAAIISTLVSS VLPVELARDMQTDTQDHQKLCYSALILAMIFSMGEAVPYAHYEHLGTPFAQFLLSIVEDGLPLDTTEQ LPDLCMNLLLALNLHLPAPDQNIIMAALSKHANVKIFSEKLLLLLNRGDDPVRIFKHEPQPPHSILKFL QDVFASPATAAIFYHTDMMALIDITVRHIADLSPGDKLRMEYLSLMHAVVRSTPYLQHRHRLPDLQA TLRRILTEEEASPQCQMDRMIVREMCKEFPVLGEAPS	
42	SH3 domain-containing protein	A0A4X1SYU9	No data	The same (38)	Match to NLHLP at 553 MYRALYAFRSAEPNALAFAAGETFLVLERSSAHWWLAARARSGETGYVPPAYLRRLQGLEQDVLQA IDRAIEAVHNAAMRDGGKYSLEQRGVLQKLIHHRKETLSRRGPSAPSPAAMTSSTSDHHLDTAAARQ PNGVCRAGFERQHSLPSSEYLGADGGLYQIPPQPRRAAPTTPPPPVKRRDREALVASGSGGCNTTPSG GSSVSSGSSVSSTSLDTFYTGSSSSELGPSCSPTPPPVPRRSTHTTVSQAQPPPSKVPNPEPPAEEVAVDTA SAPDELEALGALSLGTTEEKAAAETAVRTIGAELMELVRRNTGLSHELCRVAIGVVVGHIQASVPASS PVMEQVLLSLVEGKDLSTALPSGQVCHDQQRLEVIFADLARRKDDAQQRSWALYEDEGVIRCYLEEL LHILTDADPEVCKKMCKRNEFESVLALVAYYQMEHRVSLRLLLLKCFGAMCSLDAAIISTLVSSVLPV ELARDMQTDTQDHQKLCYSALILAMIFSMGEAVPYAHYEHLGTPFAQFLLSIVEDGLPLDTTEQLPDL CMNLLLALNLHLPAPDQNIIMAALSKHANVKIFSEKLLLLLNRGDDPVRIFKHEPQPPHSILKFLQDV FASPATAAIFYHTDMMALIDITVRHIADLSPGDKLRMEYLSLMHAVVRSTPYLQHRHRLPDLQATLR RILTEEEASPQCQMDRMIVREMCKEFPVLGEAPS	90% with A0A480QVB2 (38) and A0A5G2RIX3 (40)
43	GB1/RHD3-type G domain-containing protein	A0A4X1UA25	No data	GO:0005525 GO:0003924	Match to NLHLP at 340 MASGVHMPEPQCLIENINGRLAVNPKALKLLSAIKQPLVVVAIVGLYRTGKSYLMNKLAGKNKGFSV GSTVQSHTKGIWMWCVPHPRKPDHTLVLLDTEGLGDVEKGDKKNDTQIFVLALLLSSTFVYNTMNK IDQRAIDLLHYVAELATWLQTVSSTDADEVSGPEDSVSNCPDLVWTLRDFFLDLEVNGHPITTDEYLE NSLRPKPGADKSLQNFNLPRQCIQKFFPTKKCFIFDSPTHRKKLAQLETLHDDDLEPDFVQQVAEFCS	

					YIFSHSKSKTLPEGSKANGSHLERVVLTYVKAISSGDLPCVENTVLALAQVKNSAAMKTAIAHYDQL MGQNLHLPTETLQELLDLHRICKKVAIEVFVMNSFKDVDHGFQKKLETLLEAKQNELHERNLKTSLD RCSSLLQVIFEPLEEEVKQGFYSIPGGHRLFMQRREELKAVYYQVPWKGLQAEEALRKYLQSKESMNV TIFQTDLALTQREKEMEEARLQAEAVNFKVQVLAAILTQQHQMMEQRQRFYQEQVRRMEINRLHQ QVLQQRAQERYLQEEAKRIQERAQAENKRLQDELEHLQINDSNDDKCIIL	
44	Guanylate-binding protein 5	A0A480TKG6	No data	The same (43)	Match to NLHLP at 261 MWCVPHPRKPDHTLVLLDTEGLGDVEKGDKKNDTQIFVLALLLSSTFVYNTMNKIDQRAIDLLHYV AELATWLQTVSSTDADEVSGPEDSVSNCPDLVWTLRDFFLDLEVNGHPITTDEYLENSLRPKPGADKS LQNFNLPRQCIQKFFPTKKCFIFDSPTHRKKLAQLETLHDDDLEPDFVQQVAEFCSYIFSHSKSKTLPEG SKANGSHLERVVLTYVKAISSGDLPCVENTVLALAQVKNSAAMKTAIAHYDQLMGQNLHLPTETLQ ELLDLHRICKKVAIEVFVMNSFKDVDHGFQKKLETLLEAKQNELHERNLKTSLDRCSSLLQVIFEPLEE EVKQGFYSIPGGHRLFMQRREELKAVYYQVPWKGLQVHLVYALIRGHCWGSSSRNQ	
45	Neurobeachin-like protein 1 isoform X1	A0A480E999	No data	GO:0005515	Match to NLHLP at 1685 MASRERLFELWMLYCAKKDPDYLKLWLDNFVSSYEQFLDVDFEKLPTRVDDVPPGISLLPDNILQVLR SQLLQCVQKMADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKEKE LADQTSIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESEHL KESLKCCLLHLFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCLTE VVHILLTSSSDQRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDRP VLQAIFLNSNCFEHLIRLLQNCKLFLNANNKVADKNEKDLANKLLTEMNEDQVFQGQLDCLAVSAI QALTAVMNKSPAAKEVFKERIGYTHMFEVLKSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQPL LLLIQWLPEIESHDLQIFISDWLKRICCINRQSRTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGSL GSQSVSSEEIRQLLRLLRVDEPEYIHPYITPVTRAILTMARKQSLESALQYFNLSHSMAGISVPSIQKWPG SAFSFNAWFCLDQDQLTLGSANKGGKRKQLYSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVMLP DHSFCDSLWHNITIVHMPGKRPFGQSLVYIYDNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPPPS QIPDPPFSSPITPHRTSFGGILSSASWGGTVEKSKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQPP QVKALYLAGPNCLSPWKFQESDMADLPANVLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVNWD IKDIINCIGGLNVLFPLMEQIPLLEFGEGQIPEGPRENTVSELITPVEGDWVVLTSTKASESRLERNLIATF ILIVKHFIQRHPINQDNLIHSHGVAVLGALLQKVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQMY QYLLFDFRIWNRGDFPFRIGHIQYLSTIIKDSRRVFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIRTIR TSLYGLIKYFLCKGGTHEEIQSIVGYIAAISEEEQLIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYALL LNQKYSDRLREIIFKVMEQMLKCTNVYERSKQRIRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINTDP AINFKDLLSVVYISHRACVNVRVVICRKILQTLQSQPDAAHQISQQVGWQDTLVRLFLKANFENGNT PHKHIRTILMKDSDKNIATEDIKRSFDEKTDEEKISSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSSVG ELSFKSENQEEFWHSNPSHLSLDLSGIDSYELSDSGSQMPDSLPSTPSPIESAKSFSVQSNKESSVTNDMG FSDDFTLLESQERCEEELLQLLTTILNYVMCKGLEKSDDDTWIERGQVFSALTKPGISSELLHPPDEIKLI LLQKMLEWAVTENREAKINPVTAENALRLMLIIQDFLQSEGLVNSNMWTEKLLEDMMLLFDSLSVW YSESPVWVKLSQIQIQLLLGFIGRGNLQVCAMASAKLNTLLQTKVIENQDEACYILGKLEHVLRQSIKE QTEIYSFLIPLVRTLVSKIYELLFMNLHLPSLPFANGSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQYET HTFYDGHESMALYWKDCYEALMVNMHKRDREGGESKLKFQEFFVEPFNRKARQENLRYNNMLKQ LSSQQLATLRRWKAIKLYLTCERGPWAERKQKPIHWKLANVENYSRMRLKLVPNYNFKTHDEASAL RDNLGIQHSQPSSDSLLLEVVKQVKVSDMDEDKLDLPEEEITTRVNIDEKEEQDQKEKLVLSEDCELITI IDVIPGRLEITTQHIYFYDGSIEKEDGVGFDFKWPHSQVREIHLRRYNLRRSALEIFHVDQSNYFLNFKK EVRNKVYSRLLSLHSPNSYGTRSPQELFKTSGLTQKWVNREISNFDYLIQLNTMAGRTYNDLAQYPVF PWILQDYTSEELDLNNPSVFRDLSKPIGVVNDKNAKAMREKYENFEDPMGTIDKFHYGTHYSNSAGV MHYLIRTEPFTTLHIQLQSGRFDCADRQFHSIPATWQALMDNPYDVKELIPEFFYFPEFLENQNKFNL GRLQVSKEVVNDVILPKWAKSAEDFIYKHRKALESEYVSAHLHEWIDLIFGYKQRGPAAVEALNVFY YCSYEGAVDLDALTDEKERKALEGMINNFGQTPCQLLKEPHPSRLSAEEAVQKQTKTDTSTLNLFQH LPELKSFFIEGISDGIPLVKAIVPKNQSRSFMSQGSPELLITVSMNYVIGTHGWLPYDRTISNYFTFIKDQT	

					VTNPKTQRVMNGPFAPGLEITSKLFIVSHDAKLLFSAGHWDNSIQVMSLTKGKIISHHIRHMDIVTCL ATDYCGIHLISGSRDTTCMIWQITQQGGVPVGLASKPFQILYGHTDEVLSVGISTELDMAVSGSRDGTV IIHTIQKGQYMRTLRPPCESSLLLTIPSLAISWEGHIVIYSSIEERTTLKDKNALHLFSVNGKYLGSQVLKE QVSDMCIIGEHIVTGSLQGFLSIRDLHSLNLSINPLAMRLPIHCVCVTKEHSHILVGLEDGKLIVVGVGK PAEVKPSIKNLISHSIGDSFGYSYFQLNQKSPLWVNKLKNKFDFSKYSK	
46	Uncharacterized protein	A0A287AJ02	Medium in heart left ventricle	The same (7) + GO:0005515 GO:0005506 GO:0016705 GO:0020037	Match to NLHLP at 1753 MWRFLGLGSNPGHSSDNAESLITRPPENSLIHILKQHIYLPECHLEISYYCFFQLINSYLFNRSECIFLKNS RHIFNITMVFLFQKDPDYLKLWLDNFVSSYEQFLDVDFEKLPTRVDDVPPGISLLPDNILQVLRSQLLQ CVQKMADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKEKELADQT SIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESEHLKESLKC CLLHLFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCLTEVVHILLT SSSDQRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDRPVLQAIFL NSNCFEHLIRLLQNCKLFLNANNKVADKNEKDLANKLLTEMNEDQVFQGQLDCLAVSAIQALTAV MNKSPAAKEVFKERIGYTHMFEVLKSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQPLLLLIQWL PEIESHDLQIFISDWLKRICCINRQSRTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGSLGSQSVSSE EIRQLLRLLRVDEPEYIHPYITPVTRAILTMARKQSLESALQYFNLSHSMAGISVPSIQKWPGSAFSFNA WFCLDQDQLTLGSANKGGKRKQLYSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVMLPDHSFCDS LWHNITIVHMPGKRPFGQSLVYIYDNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPPPSQIPDPPF SSPITPHRTSFGGILSSASWGGTVEKSKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQPPQVKALY LAGPNCLSPWKFQESDMADLPANVLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVNWDIKDIINCI GGLNVLFPLMEQIPLLEFGEGQIPEGPRENTVSELITPVEGDWVVLTSTKASESRLERNLIATFILIVKHFI QRHPINQDNLIHSHGVAVLGALLQKVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQMYQYLLFDF RIWNRGDFPFRIGHIQYLSTIIKDSRRVFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIRTIRTSLYGLIK YFLCKGGTHEEIQSIVGYIAAISEEEQLIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYALLLNQKYSD RLREIIFKVMEQMLKCTNVYERSKQRIRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINTDPAINFKDL LSVVYISHRACVNVRVVICRKILQTLQSQPDAAHQISQQVGWQDTLVRLFLKANFENGNTPHKHIRTI LMKDSDKNIATEDIKRSFDEKTDEEKISSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSSVGELSFKSEN QEEFWHSNPSHLSLDLSGIDSYELSDSGSQMPDSLPSTPSPIESAKSFSVQSNKESSVTNDMGFSDDFTLL ESQERCEEELLQLLTTILNYVMCKGLEKSDDDTWIERGQVFSALTKPGISSELLHPPDEIKLILLQKMLE WAVTENREAKINPVTAENALRLMLIIQDFLQSEGLVNSNMWTEKLLEDMMLLFDSLSVWYSESPVW VKLSQIQIQLLLGFIGRGNLQVCAMASAKLNTLLQTKVIENQDEACYILGKLEHVLRQSIKEQTEIYSFL IPLVRTLVSKIYELLFMNLHLPSLPFANGSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQYETHTFYDGH ESMALYWKDCYEALMVNMHKRDREGGESKLKFQEFFVEPFNRKARQENLRYNNMLKQLSSQQLAT LRRWKAIKLYLTCERGPWAERKQKPIHWKLANVENYSRMRLKLVPNYNFKTHDEASALRDNLGIQH SQPSSDSLLLEVVKQVKVSDMDEDKLDLPEEEITTRVNIDEKEEQDQKEKLVLSEDCELITIIDVIPGRLE ITTQHIYFYDGSIEKEDGVGFDFKWPHSQVREIHLRRYNLRRSALEIFHVDQSNYFLNFKKEVRNKVYS RLLSLHSPNSYGTRSPQELFKTSGLTQKWVNREISNFDYLIQLNTMAGRTYNDLAQYPVFPWILQDYT SEELDLNNPSVFRDLSKPIGVVNDKNAKAMREKYENFEDPMGTIDKFHYGTHYSNSAGVMHYLIRTE PFTTLHIQLQSGRFDCADRQFHSIPATWQALMDNPYDVKELIPEFFYFPEFLENQNKFNLGRLQVSKE VVNDVILPKWAKSAEDFIYKHRKALESEYVSAHLHEWIDLIFGYKQRGPAAVEALNVFYYCSYEGAV DLDALTDEKERKALEGMINNFGQTPCQLLKEPHPSRLSAEEAVQKQTKTDTSTLNLFQHLPELKSFFIE GISDGIPLVKAIVPKNQSRSFMSQGSPELLITVSMNYVIGTHGWLPYDRTISNYFTFIKDQTVTNPKTQR VMNGPFAPGLEITSKLFIVSHDAKLLFSAGHWDNSIQVMSLTKGKIISHHIRHMDIVTCLATDYCGIHL ISGSRDTTCMIWQITQQGGVPVGLASKPFQILYGHTDEVLSVGISTELDMAVSGSRDGTVIIHTIQKGQY MRTLRPPCESSLLLTIPSLAISWEGHIVIYSSIEERTTLKDKNALHLFSVNGKYLGSQVLKEQVSDMCIIG EHIVTGSLQGFLSIRDLHSLNLSINPLAMRLPIHCVCVTKEHSHILVGLEDGKLIVVGVGKPAEASRQA AGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGRRLVVSLGTVDVLKQHINPNKTS DPFETMLKSLLRYQSDSGNMSENHMRKKLYENGVTNSLQSNFALLLKLSEELLDKWLAYPESQHVPL CQHMLGFAMKSVTQMVMGSTFEDEQEVIRFQKNHGTVWSEIGKGFLDGSLDKSTTRKKQYEDALM	90% with A0A480E999 (45)

					QLESILKKIIKERKGRNFSQHVFIDSLVQGNLNDQQILEDSMIFSLASCVITAKLCTWTICFLTTYEEVQK KLYEEIDQVFGKGPIIPEKIEELRYCRQVLCETVRTAKLTPVSARLQDIEGKIDTFIIPKETLVLYALGVVL QDPSTWSSPYKFDPERFDDESVMKTFSLLGFSGPQECPELRFAYMVTTVLLSVLVRRLHLLSVEGQVIET KYELVTSSKEEAWITVSKRY	
47	Uncharacterized protein	A0A5G2QLE9	No data	The same (13)	Match to NLHLP at 27 MVLVWLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQ DVVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYSLFWKAHKKLTRSALLLGVRSS MEPRVEQLTQEFCERMRAQAGTPVTIQKEFSVLTCSIICCLTFGDKEDTLVHALHDCVQDLMKTWEH WSIQILDMVPFLRVRRWSPGPQGPEREGGGGEQGSFPAATRSCSLPQFFPSPGLRRLKQAIENRDHLVE KQLRRHKESMVAGQWRDMLDYMLQEAGRQRVEEGQGQLLEGHVHMSVVDLFIGGTETTANTLSW AVVYLLHHPEIQWRLQEELDRELGPGAAGSRVPYKDRARLPLLNATIAEVLRLRPVVPLALPHRATRP SSIFGYDIPEGTVVIPNLQGAHLDETVWEQPHEFRPDRFLAPGANPSALAFGCGARVCLGEPLARLELF VVLVQLLQAFTLLPPEGALPSLQPHPHSGINLKVQPFQVRLQPRGGRGEGPGPR	90% with P15540 (1), Q6B7Q1 (10), Q6B7P7 (11) and A5A8W5 (14)
48	Uncharacterized protein	A0A4X1VA33	No data	The same (13)	Match to NLHLP at 27 LVLVWLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQD VVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHSLLLGVRSSMEPRVEQLTQEFCERMRAQAGTP VTIQKEFSVLTCSIICCLTFGDKEDTLVHALHDCVQDLMKTWEHWSIQILDMVPFLRFFPSPGLRRLKQ AIENRDHLVEKQLRRHKESMVAGQWRDMLDYMLQEAGRQRVEEGQGQLLEGHVHMSVVDLFIGG TETTANTLSWAVVYLLHHPEIQWRLQEELDRELGPGAAGSRVPYKDRARLPLLNATIAEVLRLRPVVP LALPHRATRPSSIFGYDIPEGTVVIPNLQGAHLDETVWEQPHEFRPDRFLAPGANPSALAFGCGARVC LGEPLARLELFVVLVQLLQAFTLLPPEGALPSLQPHPHSGINLKVQPFQVRLQPRGGRGEGPGPR	90% with A5A8W7 (13)
49	Uncharacterized protein	F1SHE6	High-Medium in heart left ventricle (86.07), medium in heart (64.63) low in endocardial endothelium (45.36)	Molecular Function protein binding (GO:0005515)	Match to NLHLP at 1656 MASRERLFELWMLYCAKKDPDYLKLWLDNFVSSYEQFLDVDFEKLPTRVDDVPPGISLLPDNILQVLR SQLLQCVQKMADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKEKE LADQTSIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESEHL KESLKCCLLHLFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCLTE VVHILLTSSSDQRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDRP VLQAIFLNSNCFEHLIRLLQNCKVFQGQLDCLAVSAIQALTAVMNKSPAAKEVFKERIGYTHMFEVL KSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQPLLLLIQWLPEIESHDLQIFISDWLKRICCINRQS RTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGSLGSQSVSSEEIRQLLRLLRVDEPEYIHPYITPVTR AILTMARKQSLESALQYFNLSHSMAGISVPSIQKWPGSAFSFNAWFCLDQDQLTLGSANKGGKRKQL YSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVMLPDHSFCDSLWHNITIVHMPGKRPFGQSLVYIY DNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPPPSQIPDPPFSSPITPHRTSFGGILSSASWGGTVEK SKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQPPQVKALYLAGPNCLSPWKFQESDMADLPAN VLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVNWDIKDIINCIGGLNVLFPLMEQIPLLEFGEGQIPE GPRENTVSELITPVEGDWVVLTSTKASESRLERNLIATFILIVKHFIQRHPINQDNLIHSHGVAVLGALL QKVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQMYQYLLFDFRIWNRGDFPFRIGHIQYLSTIIKDSR RVFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIRTIRTSLYGLIKYFLCKGGTHEEIQSIVGYIAAISEEE QLIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYALLLNQKYSDRLREIIFKVMEQMLKCTNVYERSKQ RIRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINTDPAINFKDLLSVVYISHRACVNVRVVICRKILQTL QSQPDAAHQISQQVGWQDTLVRLFLKANFENGNTPHKHIRTILMKDSDKNIATEDIKRSFDEKTDEE KISSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSSVGELSFKSENQEEFWHSNPSHLSLDLSGIDSYELS DSGSQMPDSLPSTPSPIESAKSFSVQSNKESSVTNDMGFSDDFTLLESQERCEEELLQLLTTILNYVMCK GLEKSDDDTWIERGQVFSALTKPGISSELLHPPDEIKLILLQKMLEWAVTENREAKINPVTAENALRL MLIIQDFLQSEGLVNSNMWTEKLLEDMMLLFDSLSVWYSESPVWVKLSQIQIQLLLGFIGRGNLQVCA MASAKLNTLLQTKVIENQDEACYILGKLEHVLRQSIKEQTEIYSFLIPLVRTLVSKIYELLFMNLHLPSLP FANGSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQYETHTFYDGHESMALYWKDCYEALMVNMHKR DREGGESKLKFQEFFVEPFNRKARQENLRYNNMLKQLSSQQLATLRRWKAIKLYLTCERGPWAERK	90% with A0A287AJ02 (46) and A0A480E999 (45)

					QKPIHWKLANVENYSRMRLKLVPNYNFKTHDEASALRDNLGIQHSQPSSDSLLLEVVKQVKVSDMD EDKLDLPEEEITTRVNIDEKEEQDQKEKLVLSEDCELITIIDVIPGRLEITTQHIYFYDGSIEKEDGVGFDF KWPHSQVREIHLRRYNLRRSALEIFHVDQSNYFLNFKKEVRNKVYSRLLSLHSPNSYGTRSPQELFKTS GLTQKWVNREISNFDYLIQLNTMAGRTYNDLAQYPVFPWILQDYTSEELDLNNPSVFRDLSKPIGVV NDKNAKAMREKYENFEDPMGTIDKFHYGTHYSNSAGVMHYLIRTEPFTTLHIQLQSGRFDCADRQF HSIPATWQALMDNPYDVKELIPEFFYFPEFLENQNKFNLGRLQVSKEVVNDVILPKWAKSAEDFIYKH RKALESEYVSAHLHEWIDLIFGYKQRGPAAVEALNVFYYCSYEGAVDLDALTDEKERKALEGMINNF GQTPCQLLKEPHPSRLSAEEAVQKQTKTDTSTLNLFQHLPELKSFFIEGISDGIPLVKAIVPKNQSRSFM SQGSPELLITVSMNYVIGTHGWLPYDRTISNYFTFIKDQTVTNPKTQRVMNGPFAPGLEITSKLFIVSHD AKLLFSAGHWDNSIQVMSLTKGKIISHHIRHMDIVTCLATDYCGIHLISGSRDTTCMIWQITQQGGVP VGLASKPFQILYGHTDEVLSVGISTELDMAVSGSRDGTVIIHTIQKGQYMRTLRPPCESSLLLTIPSLAIS WEGHIVIYSSIEERTTLKDKNALHLFSVNGKYLGSQVLKEQVSDMCIIGEHIVTGSLQGFLSIRDLHSLN LSINPLAMRLPIHCVCVTKEHSHILVGLEDGKLIVVGVGKPAEMRSGQLSRKLWGSSKRLSQISAGETE YNTQDSK	
50	Uncharacterized protein	A0A287BFX1	Medium in heart left ventricle	GO:0005515	Match to NLHLP at 1608 MADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKEKELADQTSIEEF VIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESEHLKESLKCCLLH LFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCLTEVVHILLTSSSD QRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDRPVLQAIFLNSNC FEHLIRLLQNCKLFLNANNKVADKNEKDLANKLLTEMNEDQVFQGQLDCLAVSAIQALTAVMNKS PAAKEVFKERIGYTHMFEVLKSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQPLLLLIQWLPEIES HDLQIFISDWLKRICCINRQSRTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGSLGSQSVSSEEIRQ LLRLLRVDEPEYIHPYITPVTRAILTMARKQSLESALQYFNLSHSMAGISVPSIQKWPGSAFSFNAWFCL DQDQLTLGSANKGGKRKQLYSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVMLPDHSFCDSLWH NITIVHMPGKRPFGQSLVYIYDNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPPPSQIPDPPFSSPIT PHRTSFGGILSSASWGGTVEKSKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQPPQVKALYLAG PNCLSPWKFQESDMADLPANVLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVNWDIKDIINCIGGL NVLFPLMEQIPLLEFGEGQIPEGPRENTVSELITPVEGDWVVLTSTKASESRLERNLIATFILIVKHFIQR HPINQDNLIHSHGVAVLGALLQKVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQMYQYLLFDFRI WNRGDFPFRIGHIQYLSTIIKDSRRVFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIRTIRTSLYGLIKYF LCKGGTHEEIQSIVGYIAAISEEEQLIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYALLLNQKYSDRL REIIFKVMEQMLKCTNVYERSKQRIRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINTDPAINFKDLLS VVYISHRACVNVRVVICRKILQTLQSQPDAAHQISQQVGWQDTLVRLFLKANFENGNTPHKHIRTIL MKDSDKNIATEDIKRSFDEKTDEEKISSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSSVGELSFKSENQ EEFWHSNPSHLSLDLSGIDSYELSDSGSQMPDSLPSTPSPIESAKSFSVQSNKESSVTNDMGFSDDFTLLE SQERCEEELLQLLTTILNYVMCKGLEKSDDDTWIERGQVFSALTKPGISSELLHPPDEIKLILLQKMLEW AVTENREAKINPVTAENALRLMLIIQDFLQSEGLVNSNMWTEKLLEDMMLLFDSLSVWYSESPVWVK LSQIQIQLLLGFIGRGNLQVCAMASAKLNTLLQTKVIENQDEACYILGKLEHVLRQSIKEQTEIYSFLIPL VRTLVSKIYELLFMNLHLPSLPFANGSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQYETHTFYDGHES MALYWKDCYEALMVNMHKRDREGGESKLKFQEFFVEPFNRKARQENLRYNNMLKQLSSQQLATLR RWKAIKLYLTCERGPWAERKQKPIHWKLANVENYSRMRLKLVPNYNFKTHDEASALRDNLGIQHS QPSSDSLLLEVVKQVKVSDMDEDKLDLPEEEITTRVNIDEKEEQDQKEKLVLSEDCELITIIDVIPGRLEI TTQHIYFYDGSIEKEDGVGFDFKWPHSQVREIHLRRYNLRRSALEIFHVDQSNYFLNFKKEVRNKVYS RLLSLHSPNSYGTRSPQELFKTSGLTQKWVNREISNFDYLIQLNTMAGRTYNDLAQYPVFPWILQDYT SEELDLNNPSVFRDLSKPIGVVNDKNAKAMREKYENFEDPMGTIDKFHYGTHYSNSAGVMHYLIRTE PFTTLHIQLQSGRFDCADRQFHSIPATWQALMDNPYDVKELIPEFFYFPEFLENQNKFNLGRLQVSKE VVNDVILPKWAKSAEDFIYKHRKALESEYVSAHLHEWIDLIFGYKQRGPAAVEALNVFYYCSYEGAV DLDALTDEKERKALEGMINNFGQTPCQLLKEPHPSRLSAEEAVQKQTKTDTSTLNLFQHLPELKSFFIE GISDGIPLVKAIVPKNQSRSFMSQGSPELLITVSMNYVIGTHGWLPYDRTISNYFTFIKDQTVTNPKTQR	90% with A0A287AJ02 (46), F1SHE6 (49) and A0A480E999 (45)

					VMNGPFAPGLEITSKLFIVSHDAKLLFSAGHWDNSIQVMSLTKGKIISHHIRHMDIVTCLATDYCGIHL ISGSRDTTCMIWQITQQGGVPVGLASKPFQILYGHTDEVLSVGISTELDMAVSGSRDGTVIIHTIQKGQY MRTLRPPCESSLLLTIPSLAISWEGHIVIYSSIEERTTLKDKNALHLFSVNGKYLGSQVLKEQVSDMCIIG EHIVTGSLQGFLSIRDLHSLNLSINPLAMRLPIHCVCVTKEHSHILVGLEDGKLIVVGVGKPAEMRSGQ LSRKLWGSSKRLSQISAGETEYNTQDSK	
51	Uncharacterized protein	A0A286ZRL3	Medium in heart left ventricle	GO:0005515 GO:0005506 GO:0016705 GO:0020037 GO:0019901 GO:0008104	Match to NLHLP at 1685 MASRERLFELWMLYCAKKDPDYLKLWLDNFVSSYEQFLDVDFEKLPTRVDDVPPGISLLPDNILQVLR SQLLQCVQKMADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKEKE LADQTSIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESEHL KESLKCCLLHLFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCLTE VVHILLTSSSDQRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDRP VLQAIFLNSNCFEHLIRLLQNCKLFLNANNKVADKNEKDLANKLLTEMNEDQVFQGQLDCLAVSAI QALTAVMNKSPAAKEVFKERIGYTHMFEVLKSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQPL LLLIQWLPEIESHDLQIFISDWLKRICCINRQSRTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGSL GSQSVSSEEIRQLLRLLRVDEPEYIHPYITPVTRAILTMARKQSLESALQYFNLSHSMAGISVPSIQKWPG SAFSFNAWFCLDQDQLTLGSANKGGKRKQLYSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVMLP DHSFCDSLWHNITIVHMPGKRPFGQSLVYIYDNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPPPS QIPDPPFSSPITPHRTSFGGILSSASWGGTVEKSKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQPP QVKALYLAGPNCLSPWKFQESDMADLPANVLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVNWD IKDIINCIGGLNVLFPLMEQIPLLEFGEGQIPEGPRENTVSELITPVEGDWVVLTSTKASESRLERNLIATF ILIVKHFIQRHPINQDNLIHSHGVAVLGALLQKVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQMY QYLLFDFRIWNRGDFPFRIGHIQYLSTIIKDSRRVFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIRTIR TSLYGLIKYFLCKGGTHEEIQSIVGYIAAISEEEQLIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYALL LNQKYSDRLREIIFKVMEQMLKCTNVYERSKQRIRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINTDP AINFKDLLSVVYISHRACVNVRVVICRKILQTLQSQPDAAHQISQQVGWQDTLVRLFLKANFENGNT PHKHIRTILMKDSDKNIATEDIKRSFDEKTDEEKISSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSSVG ELSFKSENQEEFWHSNPSHLSLDLSGIDSYELSDSGSQMPDSLPSTPSPIESAKSFSVQSNKESSVTNDMG FSDDFTLLESQERCEEELLQLLTTILNYVMCKGLEKSDDDTWIERGQVFSALTKPGISSELLHPPDEIKLI LLQKMLEWAVTENREAKINPVTAENALRLMLIIQDFLQSEGLVNSNMWTEKLLEDMMLLFDSLSVW YSESPVWVKLSQIQIQLLLGFIGRGNLQVCAMASAKLNTLLQTKVIENQDEACYILGKLEHVLRQSIKE QTEIYSFLIPLVRTLVSKIYELLFMNLHLPSLPFANGSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQYET HTFYDGHESMALYWKDCYEALMVNMHKRDREGGESKLKFQEFFVEPFNRKARQENLRYNNMLKQ LSSQQLATLRRWKAIKLYLTCERGPWAERKQKPIHWKLANVENYSRMRLKLVPNYNFKTHDEASAL RDNLGIQHSQPSSDSLLLEVVKQVKVSDMDEDKLDLPEEEITTRVNIDEKEEQDQKEKLVLSEDCELITI IDVIPGRLEITTQHIYFYDGSIEKEDGVGFDFKWPHSQVREIHLRRYNLRRSALEIFHVDQSNYFLNFKK EVRNKVYSRLLSLHSPNSYGTRSPQELFKTSGLTQKWVNREISNFDYLIQLNTMAGRTYNDLAQYPVF PWILQDYTSEELDLNNPSVFRDLSKPIGVVNDKNAKAMREKYENFEDPMGTIDKFHYGTHYSNSAGV MHYLIRTEPFTTLHIQLQSGRFDCADRQFHSIPATWQALMDNPYDVKELIPEFFYFPEFLENQNKFNL GRLQVSKEVVNDVILPKWAKSAEDFIYKHRKALESEYVSAHLHEWIDLIFGYKQRGPAAVEALNVFY YCSYEGAVDLDALTDEKERKALEGMINNFGQTPCQLLKEPHPSRLSAEEAVQKQTKTDTSTLNLFQH LPELKSFFIEGISDGIPLVKAIVPKNQSRSFMSQGSPELLITVSMNYVIGTHGWLPYDRTISNYFTFIKDQT VTNPKTQRVMNGPFAPGLEITSKLFIVSHDAKLLFSAGHWDNSIQVMSLTKGKIISHHIRHMDIVTCL ATDYCGIHLISGSRDTTCMIWQITQQGGVPVGLASKPFQILYGHTDEVLSVGISTELDMAVSGSRDGTV IIHTIQKGQYMRTLRPPCESSLLLTIPSLAISWEGHIVIYSSIEERTTLKDKNALHLFSVNGKYLGSQVLKE QVSDMCIIGEHIVTGSLQGFLSIRDLHSLNLSINPLAMRLPIHCVCVTKEHSHILVGLEDGKLIVVGVGK PAEASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGRRLVVSLGTVDVLKQ HINPNKTSDPFETMLKSLLRYQSDSGNMSENHMRKKLYENGVTNSLQSNFALLLKLSEELLDKWLAY PESQHVPLCQHMLGFAMKSVTQMVMGSTFEDEQEVIRFQKNHGTVWSEIGKGFLDGSLDKSTTRKK QYEDALMQLESILKKIIKERKGRNFSQHVFIDSLVQGNLNDQQILEDSMIFSLASCVITAKLCTWTICFL	90% with A0A287AJ02 (46), F1SHE6 (49), A0A287BFX1 (50) and A0A480E999 (45)

					TTYEEVQKKLYEEIDQVFGKGPIIPEKIEELRYCRQVLCETVRTAKLTPVSARLQDIEGKIDTFIIPKETLV LYALGVVLQDPSTWSSPYKFDPERFDDESVMKTFSLLGFSGPQECPELRFAYMVTTVLLSVLVRRLHLL SVEGQVIETKYELVTSSKEEAWITVSKRY	
52	Uncharacterized protein	A0A4X1V6R6	No data	The same (13)	Match to NLHLP at 27 MVLVGLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQD KLASQHCPDISLGDYLFWKAHKKLTRSALLLGVRSSMEPRVEQLTQEFCERMRAQAGTPVTIQKEFSV LTCSIICCLTFGDKVKEDTLVHALHDCVQDLMKTWEHWSIQILDMVPFLRFFPSPGLRRLKQAIENRD HLVEKQLRRHKESMVAGQWRDMLDYMLQEAGRQRVEEGQGQLLEGHVHMSVVDLFIGGTETTAN TLSWAVVYLLHHPEIQWRLQEELDRELGPGAAGSRVPYKDRARLPLLNATIAEVLRLRPVVPLALPH RATRPSSIFGYDIPEGTVVIPNLQGAHLDETVWEQPHEFRPDRFLAPGANPSALAFGCGARVCLGEPL ARLELFVVLVQLLQAFTLLPPEGALPSLQPHPHSGINLKVQPFQVRLQPRGGRAQGPGEHL	90% with A5A8W7 (13)
53	Uncharacterized protein	A0A4X1V4K3	No data	The same (7) + GO:0005515 GO:0005506 GO:0016705 GO:0020037	Match to NLHLP at 1686 MHFLKNSRHIFNITMVFLFQKDPDYLKLWLDNFVSSYEQFLDVDFEKLPTRVDDVPPGISLLPDNILQV LRSQLLQCVQKMADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKE KELADQTSIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESE HLKESLKCCLLHLFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCL TEVVHILLTSSSDQRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDR PVLQAIFLNSNCFEHLIRLLQNCKLFLNANNKVADKNEKDLANKLLTEMNEDQVFQGQLDCLAVSA IQALTAVMNKSPAAKEVFKERIGYTHMFEVLKSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQP LLLLIQWLPEIESHDLQIFISDWLKRICCINRQSRTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGS LGSQSVSSEEIRQLLRLLRVDEPEYIHPYITPVTRAILTMARKQSLESALQYFNLSHSMAGISVPSIQKWP GSAFSFNAWFCLDQDQLTLGSANKGGKRKQLYSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVML PDHSFCDSLWHNITIVHMPGKRPFGQSLVYIYDNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPP PSQIPDPPFSSPITPHRTSFGGILSSASWGGTVEKSKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQ PPQVKALYLAGPNCLSPWKFQESDMADLPANVLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVN WDIKDIINCIGGLNVLFPLMEQIRHFGEGQIPEGPRENTVSELITPVEGDWVVLTSTKASESRLERNLIA TFILIVKHFIQRHPINQDNLIHSHGVAVLGALLQKVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQ MYQYLLFDFRIWNRGDFPFRIGHIQYLSTIIKDSRRVFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIR TIRTSLYGLIKYFLCKGGTHEEIQSIVGYIAAISEEEQLIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYA LLLNQKYSDRLREIIFKVMEQMLKCTNVYERSKQRIRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINT DPAINFKDLLSVVYISHRACVNVRVVICRKILQTLQSQPDAAHQISQQVGWQDTLVRLFLKANFENG NTPHKHIRTILMKDSDKNIATEDIKRSFDEKTDEEKISSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSS VGELSFKSENQEEFWHSNPSHLSLDLSGIDSYELSDSGSQMPDSLPSTPSPIESAKSFSVQSNKESSVTND MGFSDDFTLLESQERCEEELLQLLTTILNYVMCKGLEKSDDDTWIERGQVFSALTKPGISSELLHPPDEI KLILLQKMLEWAVTENREAKINPVTAENALRLMLIIQDFLQSEGLVNSNMWTEKLLEDMMLLFDSLS VWYSESPVWVKLSQIQIQLLLGFIGRGNLQVCAMASAKLNTLLQTKVIENQDEACYILGKLEHVLRQS IKEQTEIYSFLIPLVRTLVSKIYELLFMNLHLPSLPFANGSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQY ETHTFYDGHESMALYWKDCYEALMVNMHKRDREGGESKLKFQEFFVEPFNRKARQENLRYNNML KQLSSQQLATLRRWKAIKLYLTCERGPWAERKQKPIHWKLANVENYSRMRLKLVPNYNFKTHDEAS ALRDNLGIQHSQPSSDSLLLEVVKQVKVSDMDEDKLDLPEEEITTRVNIDEKEEQDQKEKLVLSEDCEL ITIIDVIPGRLEITTQHIYFYDGSIEKEDGVGFDFKWPHSQVREIHLRRYNLRRSALEIFHVDQSNYFLNF KKEVRNKVYSRLLSLHSPNSYGTRSPQELFKTSGLTQKWVNREISNFDYLIQLNTMAGRTYNDLAQYP VFPWILQDYTSEELDLNNPSVFRDLSKPIGVVNDKNAKAMREKYENFEDPMGTIDKFHYGTHYSNSA GVMHYLIRTEPFTTLHIQLQSGRFDCADRQFHSIPATWQALMDNPYDVKELIPEFFYFPEFLENQNKF NLGRLQVSKEVVNDVILPKWAKSAEDFIYKHRKALESEYVSAHLHEWIDLIFGYKQRGPAAVEALNV FYYCSYEGAVDLDALTDEKERKALEGMINNFGQTPCQLLKEPHPSRLSAEEAVQKQTKTDTSTLNLF QHLPELKSFFIEGISDGIPLVKAIVPKNQSRSFMSQGSPELLITVSMNYVIGTHGWLPYDRTISNYFTFIK DQTVTNPKTQRVMNGPFAPGLEITSKLFIVSHDAKLLFSAGHWDNSIQVMSLTKGKIISHHIRHMDIV	90% with A0A287AJ02 (46), F1SHE6 (49), A0A287BFX1 (50), A0A286ZRL3 (51) and A0A480E999 (45)

					TCLATDYCGIHLISGSRDTTCMIWQITQQGGVPVGLASKPFQILYGHTDEVLSVGISTELDMAVSGSRD GTVIIHTIQKGQYMRTLRPPCESSLLLTIPSLAISWEGHIVIYSSIEERTTLKDKNALHLFSVNGKYLGSQV LKEQVSDMCIIGEHIVTGSLQGFLSIRDLHSLNLSINPLAMRLPIHCVCVTKEHSHILVGLEDGKLIVVG VGKPAEASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGRRLVVSLGTVDV LKQHINPNKTSDPFETMLKSLLRYQSDSGNMSENHMRKKLYENGVTNSLQSNFALLLKLSEELLDKW LAYPESQHVPLCQHMLGFAMKSVTQMVMGSTFEDEQEVIRFQKNHGTVWSEIGKGFLDGSLDKSTT RKKQYEDALMQLESILKKIIKERKGRNFSQHVFIDSLVQGNLNDQQILEDSMIFSLASCVITAKLCTWTI CFLTTYEEVQKKLYEEIDQVFGKGPIIPEKIEELRYCRQVLCETVRTAKLTPVSARLQDIEGKIDTFIIPKE TLVLYALGVVLQDPSTWSSPYKFDPERFDDESVMKTFSLLGFSGPQECPELRFAYMVTTVLLSVLVRRL HLLSVEGQVIETKYELVTSSKEEAWITVSKRY	
54	Uncharacterized protein	A0A4X1V6V9	No data	The same (7) + GO:0005515	Match to NLHLP at 1683 MASRERLFELWMLYCAKKDPDYLKLWLDNFVSSYEQFLDVDFEKLPTRVDDVPPGISLLPDNILQVLR SQLLQCVQKMADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKEKE LADQTSIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESEHL KESLKCCLLHLFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCLTE VVHILLTSSSDQRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDRP VLQAIFLNSNCFEHLIRLLQNCKLFLNANNKVADKNEKDLANKLLTEMNEDQVFQGQLDCLAVSAI QALTAVMNKSPAAKEVFKERIGYTHMFEVLKSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQPL LLLIQWLPEIESHDLQIFISDWLKRICCINRQSRTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGSL GSQSVSSEEIRQLLRLLRVDEPEYIHPYITPVTRAILTMARKQSLESALQYFNLSHSMAGISVPSIQKWPG SAFSFNAWFCLDQDQLTLGSANKGGKRKQLYSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVMLP DHSFCDSLWHNITIVHMPGKRPFGQSLVYIYDNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPPPS QIPDPPFSSPITPHRTSFGGILSSASWGGTVEKSKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQPP QVKALYLAGPNCLSPWKFQESDMADLPANVLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVNWD IKDIINCIGGLNVLFPLMEQIRHFGEGQIPEGPRENTVSELITPVEGDWVVLTSTKASESRLERNLIATFIL IVKHFIQRHPINQDNLIHSHGVAVLGALLQKVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQMYQ YLLFDFRIWNRGDFPFRIGHIQYLSTIIKDSRRVFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIRTIRTS LYGLIKYFLCKGGTHEEIQSIVGYIAAISEEEQLIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYALLLN QKYSDRLREIIFKVMEQMLKCTNVYERSKQRIRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINTDPAI NFKDLLSVVYISHRACVNVRVVICRKILQTLQSQPDAAHQISQQVGWQDTLVRLFLKANFENGNTPH KHIRTILMKDSDKNIATEDIKRSFDEKTDEEKISSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSSVGEL SFKSENQEEFWHSNPSHLSLDLSGIDSYELSDSGSQMPDSLPSTPSPIESAKSFSVQSNKESSVTNDMGFS DDFTLLESQERCEEELLQLLTTILNYVMCKGLEKSDDDTWIERGQVFSALTKPGISSELLHPPDEIKLILL QKMLEWAVTENREAKINPVTAENALRLMLIIQDFLQSEGLVNSNMWTEKLLEDMMLLFDSLSVWYS ESPVWVKLSQIQIQLLLGFIGRGNLQVCAMASAKLNTLLQTKVIENQDEACYILGKLEHVLRQSIKEQ TEIYSFLIPLVRTLVSKIYELLFMNLHLPSLPFANGSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQYETH TFYDGHESMALYWKDCYEALMVNMHKRDREGGESKLKFQEFFVEPFNRKARQENLRYNNMLKQLS SQQLATLRRWKAIKLYLTCERGPWAERKQKPIHWKLANVENYSRMRLKLVPNYNFKTHDEASALRD NLGIQHSQPSSDSLLLEVVKQVKVSDMDEDKLDLPEEEITTRVNIDEKEEQDQKEKLVLSEDCELITIID VIPGRLEITTQHIYFYDGSIEKEDGVGFDFKWPHSQVREIHLRRYNLRRSALEIFHVDQSNYFLNFKKEV RNKVYSRLLSLHSPNSYGTRSPQELFKTSGLTQKWVNREISNFDYLIQLNTMAGRTYNDLAQYPVFPW ILQDYTSEELDLNNPSVFRDLSKPIGVVNDKNAKAMREKYENFEDPMGTIDKFHYGTHYSNSAGVM HYLIRTEPFTTLHIQLQSGRFDCADRQFHSIPATWQALMDNPYDVKELIPEFFYFPEFLENQNKFNLGR LQVSKEVVNDVILPKWAKSAEDFIYKHRKALESEYVSAHLHEWIDLIFGYKQRGPAAVEALNVFYYCS YEGAVDLDALTDEKERKALEGMINNFGQTPCQLLKEPHPSRLSAEEAVQKQTKTDTSTLNLFQHLPE LKSFFIEGISDGIPLVKAIVPKNQSRSFMSQGSPELLITVSMNYVIGTHGWLPYDRTISNYFTFIKDQTVT NPKTQRVMNGPFAPGLEITSKLFIVSHDAKLLFSAGHWDNSIQVMSLTKGKIISHHIRHMDIVTCLAT DYCGIHLISGSRDTTCMIWQITQQGGVPVGLASKPFQILYGHTDEVLSVGISTELDMAVSGSRDGTVII HTIQKGQYMRTLRPPCESSLLLTIPSLAISWEGHIVIYSSIEERTTLKDKNALHLFSVNGKYLGSQVLKEQ	90% with A0A287AJ02 (46), F1SHE6 (49), A0A287BFX1 (50), A0A286ZRL3 (51), A0A4X1V4K3 (53) and A0A480E999 (45)

					VSDMCIIGEHIVTGSLQGFLSIRDLHSLNLSINPLAMRLPIHCVCVTKEHSHILVGLEDGKLIVVGVGKP AEASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGRRLVVSLGTVDVLKQH INPNKTSDPFETMLKSLLRYQSDSGNMSENHMRKKLYENGVTNSLQSNFALLLKLSEELLDKWLAYP ESQHVPLCQHMLGFAMKSVTQMVMGSTFEDEQEVIRFQKNHGTVWSEIGKGFLDGSLDKSTTRKKQ YEDALMQLESILKKIIKERKGRNFSQHVFIDSLVQGNLNDQQILEDSMIFSLASCVITAKLCTWTICFLT TYEEVQKKLYEEIDQVFGKGPIIPEKIEELRYCRQVLCETVRTAKLTPVSARLQDIEGKIDTFIIPKETLVL YALGVVLQDPSTWSSPYKFDPERFDDESVMKTFSLLGFSGPQECPELRFAYMVTTVLLSVLVRRLHLLS VEGQVIETKYELVTSSKEEAWITVSKRY	
55	Uncharacterized protein	A0A4X1VR69	No data	GO:0005515	Match to NLHLP at 661 MSGQPPPPPPPPQQQQQQQQQLPPPPPAAVAPVPGVVLPAPPAVSAGSSPAGSPGGGAGGGGGGLG AAAAALLLHPPPPPPPPATAAPPPPPPPPPPASAAAPATAPPAPPGLAAGPGPAGGAPAPALAAGSS AAAPFPHGDSALNEQEKELQRRLKRLYPAVDEQETPLPRSWSPKDKFSYIGLSQNNLRVHYKGHGKT PKDAASVRATHPIPAACGIYYFEVKIVSKGRDGYMGIGLSAQGVNMNRLPGWDKHSYGYHGDDGH SFCSSGTGQPYGPTFTTGDVIGCCVNLINNTCFYTKNGHSLGIAFTDLPPNLYPTVGLQTPGEVVDANF GQHPFVFDIEDYMREWRTKIQAQIDRFPIGDREGEWQTMIQKMVSSYLVHHGYCATAEAFARSTDQT VLEELASIKNRQRIQKLVLAGRMGEAIETTQQLYPSLLERNPNLLFTLKVRQFIEMVNGTDSEVRCLGG RSPKSQDSYPVSPRPFSSPSMSPSHGMNIHNLASGKGSTAHFSGFESCSNGVISNKAHQSYCHSKHQSS NLNVPELNSINMSRSQQVNNFTSNDVDMETDHYSNGVGETSSNGFLNGSSKHDHEMEDCDTEMEV DSSQLRRQLCGGSQAAIERMIHFGRELQAMSEQLRRECGKNTANKKMLKKPTICQSNLHLP	
56	Uncharacterized protein	A0A4X1V4L3	No data	GO:0005515	Match to NLHLP at 1654 MASRERLFELWMLYCAKKDPDYLKLWLDNFVSSYEQFLDVDFEKLPTRVDDVPPGISLLPDNILQVLR SQLLQCVQKMADGLEEEQQALSILLVKFFIILCRNLSNVEEIGTCSYINHVITMTTLYIQQLKSKKKEKE LADQTSIEEFVIHALAFCESLYDPYRNWRHRISGRILSTVEKSRQKYKPASLTVEFVPFFYQCFQESEHL KESLKCCLLHLFGAIVAGGQKNALQAISPATMEVLMRVLADCDSWEDGNPEEVGRKVELTLKCLTE VVHILLTSSSDQRQVETSSILENYFKLLNSDHSALPNQRRSRQWESRFIALQIKMLNTITAMLDCTDRP VLQAIFLNSNCFEHLIRLLQNCKVFQGQLDCLAVSAIQALTAVMNKSPAAKEVFKERIGYTHMFEVL KSLGQPPLELLKELMNMAVEGDHTSVGILGISNVQPLLLLIQWLPEIESHDLQIFISDWLKRICCINRQS RTTCVNANMGIRIIETLDSHSSLHRTCAENLIALHGSLGSQSVSSEEIRQLLRLLRVDEPEYIHPYITPVTR AILTMARKQSLESALQYFNLSHSMAGISVPSIQKWPGSAFSFNAWFCLDQDQLTLGSANKGGKRKQL YSFFTGSGMGFEAFITHSGTLVVAVCTKREYATVMLPDHSFCDSLWHNITIVHMPGKRPFGQSLVYIY DNGQQKVYAPLRFPAMNEPFISCCIGSAGQRTTTPPPSQIPDPPFSSPITPHRTSFGGILSSASWGGTVEK SKLITKLISAGTQDSEWGCPTSLEGQLGSVIIFSEALQPPQVKALYLAGPNCLSPWKFQESDMADLPAN VLLHYTAKACKNSICLDLSTNCLHGRLTGNKVVNWDIKDIINCIGGLNVLFPLMEQIRHFGEGQIPEG PRENTVSELITPVEGDWVVLTSTKASESRLERNLIATFILIVKHFIQRHPINQDNLIHSHGVAVLGALLQ KVPSTLMDVNVLMAIQLLIEQVSLEKNMQLLQQMYQYLLFDFRIWNRGDFPFRIGHIQYLSTIIKDSRR VFRKKYGVQFLLDTLRIYYGSDCKYNELSLDDIRTIRTSLYGLIKYFLCKGGTHEEIQSIVGYIAAISEEEQ LIGILDILFSLLHTSPTRGQLFLLLFEPGNADILYALLLNQKYSDRLREIIFKVMEQMLKCTNVYERSKQR IRLREVGYSGLGLLLNEAPVNTSLIKSLTNQIINTDPAINFKDLLSVVYISHRACVNVRVVICRKILQTLQ SQPDAAHQISQQVGWQDTLVRLFLKANFENGNTPHKHIRTILMKDSDKNIATEDIKRSFDEKTDEEKI SSFASAHVSSDQWSLEDRHSLDSNTPLFQEDSSVGELSFKSENQEEFWHSNPSHLSLDLSGIDSYELSDS GSQMPDSLPSTPSPIESAKSFSVQSNKESSVTNDMGFSDDFTLLESQERCEEELLQLLTTILNYVMCKGL EKSDDDTWIERGQVFSALTKPGISSELLHPPDEIKLILLQKMLEWAVTENREAKINPVTAENALRLMLII QDFLQSEGLVNSNMWTEKLLEDMMLLFDSLSVWYSESPVWVKLSQIQIQLLLGFIGRGNLQVCAMAS AKLNTLLQTKVIENQDEACYILGKLEHVLRQSIKEQTEIYSFLIPLVRTLVSKIYELLFMNLHLPSLPFAN GSSSFFEDFQEYCSSNEWQVYIEKYIVPYMKQYETHTFYDGHESMALYWKDCYEALMVNMHKRDRE GGESKLKFQEFFVEPFNRKARQENLRYNNMLKQLSSQQLATLRRWKAIKLYLTCERGPWAERKQKPI HWKLANVENYSRMRLKLVPNYNFKTHDEASALRDNLGIQHSQPSSDSLLLEVVKQVKVSDMDEDKL DLPEEEITTRVNIDEKEEQDQKEKLVLSEDCELITIIDVIPGRLEITTQHIYFYDGSIEKEDGVGFDFKWPH	90% with A0A287AJ02 (46), F1SHE6 (49), A0A287BFX1 (50), A0A286ZRL3 (51), A0A4X1V4K3 (53), A0A4X1V6V9 (54) and A0A480E999 (45)

					SQVREIHLRRYNLRRSALEIFHVDQSNYFLNFKKEVRNKVYSRLLSLHSPNSYGTRSPQELFKTSGLTQK WVNREISNFDYLIQLNTMAGRTYNDLAQYPVFPWILQDYTSEELDLNNPSVFRDLSKPIGVVNDKNA KAMREKYENFEDPMGTIDKFHYGTHYSNSAGVMHYLIRTEPFTTLHIQLQSGRFDCADRQFHSIPAT WQALMDNPYDVKELIPEFFYFPEFLENQNKFNLGRLQVSKEVVNDVILPKWAKSAEDFIYKHRKALE SEYVSAHLHEWIDLIFGYKQRGPAAVEALNVFYYCSYEGAVDLDALTDEKERKALEGMINNFGQTPC QLLKEPHPSRLSAEEAVQKQTKTDTSTLNLFQHLPELKSFFIEGISDGIPLVKAIVPKNQSRSFMSQGSPE LLITVSMNYVIGTHGWLPYDRTISNYFTFIKDQTVTNPKTQRVMNGPFAPGLEITSKLFIVSHDAKLLFS AGHWDNSIQVMSLTKGKIISHHIRHMDIVTCLATDYCGIHLISGSRDTTCMIWQITQQGGVPVGLASK PFQILYGHTDEVLSVGISTELDMAVSGSRDGTVIIHTIQKGQYMRTLRPPCESSLLLTIPSLAISWEGHIVI YSSIEERTTLKDKNALHLFSVNGKYLGSQVLKEQVSDMCIIGEHIVTGSLQGFLSIRDLHSLNLSINPLA MRLPIHCVCVTKEHSHILVGLEDGKLIVVGVGKPAEMRSGQLSRKLWGSSKRLSQISAGETEYNTQDS K	
57	Uncharacterized protein	A0A4X1VB30	No data	The same (13)	Match to NLHLP at 27 MVLVGLLLLLTLLAGARLLWGQWKLRNLHLPPLVPGFLHLLQPNLPIYLLGLTQRLGPIYRLRLGLQD VVVLNSKRTIEEALVRKWVDFAGRPQIPSYKLASQHCPDISLGDYLFWKAHKKLTRSALLLGVRSSME PRVEQLTQEFCERMRAQAGTPVTIQKEFSVLTCSIICCLTFGDKVKEDTLVHALHDCVQDLMKTWEH WSIQILDMVPFLRFFPSPGLRRLKQAIENRDHLVEKQLRRHKESMVAGQWRDMLDYMLQEAGRQRV EEGQGQLLEGHVHMSVVDLFIGGTETTANTLSWAVVYLLHHPEIQWRLQEELDRELGPGAAGSRVP YKDRARLPLLNATIAEVLRLRPVVPLALPHRATRPSSIFGYDIPEGTVVIPNLQGAHLDETVWEQPHEF RPDRFLAPGANPSALAFGCGARVCLGEPLARLELFVVLVQLLQAFTLLPPEGALPSLQPHPHSGINLK VQPFQVRLQPRGGRAQGPGEHL	90% with P15540 (1), A0A5G2QLE9 (47), Q6B7Q1 (10), Q6B7P7 (11) and A5A8W5 (14)
				FVAPW		
1	Metalloproteinase inhibitor 1	P35624	No data	GO:0005125 GO:0008083 GO:0046872 GO:0008191 GO:0002020 GO:0071492 GO:0043086 GO:0010951 GO:0051045 GO:0008284 GO:2001044 GO:0034097 GO:0009725 GO:0010033	Match to FVAPW at 124 MSPFAPLASGILLLLWLTAPSRACTCVPPHPQTAFCSSDLVIRAKFVGAPEFNQTASYKRYEIKMTKMF KGFNALGDAPDIRFIYTPAMESVCGYFHRSQNRSQEFLIAGQLWNGHLHITTCSFVAPWNSLSSAQR QGFTEIYAAGCEECTVFPCTSIPCKLQSDTHCLWTDQLLTGSDKGFQSRHLACMPREPGMCTWQSLR PRVA	
2	Metalloproteinase inhibitor 1	A0A4X1T867	Medium in heart left ventricle	GO:0005125 GO:0008083 GO:0008191 GO:0008270 GO:0071492	Match to FVAPW at 124 MAPFAPLASGILLLLWLTAPSRACTCVPPHPQTAFCSSDLVIRAKFVGAPEFNQTASYKRYEIKMTKM FKGFNALGDAPDIRFIYTPAMESVCGYFHRSQNRSQEFLIAGQLWNGHLHITTCSFVAPWNSLSSAQR QGFTEIYAAGCEECTVFPCTSIPCKLQSDTHCLWTDQLLTGSDKGFQSRHLACMPREPGMCTWQSLR PRVA	90% with P35624 (1)

				GO:0002248 GO:0051045 GO:1905049 GO:1901164 GO:0008284 GO:2001044		
3	Metalloproteinase inhibitor 1	A0A4X1TA94	No data	GO:0008083 GO:0046872 GO:0008191	Match to FVAPW at 203 MAPFAPLASGILLLLWLTAPSRACTCVPPHPQTAFCSSDLVIRAKFVGAPEFNQTASYKRYEIKMTKM FKGFNALGDAPDIRFIYTPAMESVCGYFHRSQNRSQEFLIAGEAPPSRPLPGNRKGGEALREGSQLKW EPPQSQPIRRLGLCPPGGGSVLLGTPIGSHPAPGSANQKPPVDILPHPHSHPGQLWNGHLHITTCSFV APWNSLSSAQRQGFTEIYAAGCEECTVFPCTSIPCKLQSDTHCLWTDQLLTGSDKGFQSRHLACMPRE PGMCTWQSLRPRVA	
4	Metalloproteinase inhibitor 1	F1RWV2	No data	GO:0005125 GO:0008083 GO:0008191 GO:0008270 GO:0002020 GO:0071492 GO:0002248 GO:0010951 GO:0051045 GO:1905049 GO:1901164 GO:0008284 GO:2001044 GO:0034097 GO:0009725 GO:0010033	Match to FVAPW at 124 MAPFAPLASGILLLLWLTAPSRACTCVPPHPQTAFCSSDLVIRAKFVGAPEFNQTASYKRYEIKMTKM FKGFNALGDAPDIRFIYTPAMESVCGYFHRSQNRSQEFLIAGQLWNGHLHITTCSFVAPWNSLSSAQR QGFTEIYAAGCEECTVFPCTSIPCKLQSDTHCLWTDQLLTGSDKGFQSRHLACMPREPGMCTWQSLR PRVA	100% with A0A4X1T867 (2); 90% with P35624 (1) A0A4X1T867 (2)