

Table S1 26 kinds of macamides from Maca

No.	Name	Formula	SMILE
MM01	N-benzyl-9,16-dioxo-10E,12E,14E-octadecatrienamide	C ₂₅ H ₃₃ NO ₃	CCC(=O)\C=C\C=C\ C=C\ C(=O)CCC CCCCC(=O)NCC1=CC=CC=C1
MM02	N-benzyl-16(S)-hydroxy-9-oxo-10E,12E,14E-octadecatrienamide	C ₂₅ H ₃₅ NO ₃	CC[C@H](O)\C=C\C=C\ C=C\ C(=O)C CCCCCC(=O)NCC1=CC=CC=C1
MM03	N-benzyl-5-oxo-6E,8E-octadecadienamide	C ₂₅ H ₃₇ NO ₂	CCCCCCCC\ C=C\ C=C\ C(=O)CCC C(=O)NCC1=CC=CC=C1
MM04	N-benzyl-hexadecanamide	C ₂₃ H ₃₉ NO	CCCCCCCCCCCCCCCC(=O)NCC1=CC=CC=C1
MM05	N-benzyl-9-oxo-12Z-octadecenamide	C ₂₅ H ₃₉ NO ₂	CCCC\ C=C\ CCC(=O)CCCCCCC(=O)NCC1=CC=CC=C1
MM06	N-benzyl-9-oxo-12Z,15Z-octadecadienamide	C ₂₅ H ₃₇ NO ₂	CC\ C=C/C\ C=C/CCC(=O)CCCCCCC C(=O)NCC1=CC=CC=C1
MM07	N-benzyl-13-oxo-9E,11E-octadecadienamide	C ₂₅ H ₃₇ NO ₂	CCCCC(=O)\C=C\ C=C\ CCCCCCC C(=O)NCC1=CC=CC=C1
MM08	N-benzyl-15Z-tetracosanamide	C ₃₁ H ₅₃ NO	CCCCCCCC\ C=C/CCCCCCCCCCCC CC(=O)NCC1=CC=CC=C1
MM09	N-(m-methoxybenzyl)-hexadecanamide	C ₂₄ H ₄₁ NO ₂	CCCCCCCCCCCCCCCC(=O)NCC1=CC(OC)=CC=C1
MM10	N-benzyl-9Z-octadecenamide	C ₂₅ H ₄₁ NO	CCCCCCC\ C=C\ CCCCCCC(=O)N CC1=CC=CC=C1
MM11	N-(m-methoxybenzyl)-9Z-octadecenamide	C ₂₆ H ₄₃ NO ₂	CCCCCCCC\ C=C\ CCCCCCC(=O)N CC1=CC(OC)=CC=C1
MM12	N-benzyl-9Z,12Z-octadecadienamide	C ₂₅ H ₃₉ NO	CCCC\ C=C\ C=C\ CCCCCCC(=O)NCC1=CC=CC=C1
MM13	N-(m-methoxybenzyl)-9Z,12Z-octadecadienamide	C ₂₆ H ₄₁ NO ₂	CCCC\ C=C\ C=C\ CCCCCCC(=O)NCC1=CC(OC)=CC=C1
MM14	N-benzyl-9Z,12Z,15Z-octadecatrienamide	C ₂₅ H ₃₇ NO	CC\ C=C/C\ C=C\ C=C\ CCCCCCC(=O)NCC1=CC=CC=C1
MM15	N-(m-methoxybenzyl)-9Z,12Z,15Z-octadecatrienamide	C ₂₆ H ₃₉ NO ₂	CC\ C=C/C\ C=C\ C=C\ CCCCCCC(=O)NCC1=CC(OC)=CC=C1
MM16	N-benzyl-octadecanamide	C ₂₅ H ₄₃ NO	CCCCCCCCCCCCCCCC(=O)NC C1=CC=CC=C1
MM17	N-benzyl-pentadecanamide	C ₂₂ H ₃₇ NO	CCCCCCCCCCCCCCCC(=O)NCC1=C C=CC=C1
MM18	N-benzyl-heptadecanamide	C ₂₄ H ₄₁ NO	CCCCCCCCCCCCCCCC(=O)NCC 1=CC=CC=C1
MM19	N-benzyl-octanamide	C ₁₅ H ₂₃ NO	CCCCCCC(=O)NCC1=CC=CC=C1
MM20	N-(m-methoxybenzyl)-octanamide	C ₁₆ H ₂₅ NO	CCCCCCC(=O)NCC1=CC(OC)=CC =C1
MM21	N-(3,4-dimethoxybenzyl)-hexadecanamide	C ₂₅ H ₄₃ NO ₃	CCCCCCCCCCCCCCC(=O)NCC1=CC(OC)=C(OC)C=C1

MM22	N-benzyl-tetracosanamide	C ₃₁ H ₅₅ NO	CCCCCCCCCCCCCCCCCCCCCC C(=O)NCC1=CC=CC=C1
MM23	N-benzyl-2E-octadecadienamide	C ₂₅ H ₄₁ NO	CCCCCCCCCCCCCCC\C=C\C(=O)N CC1=CC=CC=C1
MM24	N-benzyl-9-oxo-10E,12E-octadecadienamide	C ₂₅ H ₃₇ NO ₂	CCCCC\C=C\C=C\C(=O)CCCCCCC C(=O)NCC1=CC=CC=C1
MM25	N-benzyl-9-oxo-10E,12Z-octadecadienamide	C ₂₅ H ₃₇ NO ₂	CCCCC\C=C/C=C/C(=O)CCCCCCC C(=O)NCC1=CC=CC=C1
MM26	N-(3,4-dimethoxybenzyl)-9Z-oleamide	C ₂₇ H ₄₅ NO ₃	CCCCCCCC\C=C/CCCCCCC(=O)N CC1=CC(OC)=C(OC)C=C1

Table S2 Potential active ingredients of Maca compound preparation

No.	Chemical composition	Molecular	OB%	DL%
Citrus reticulata Blanco (Chenpi)	CP01 carotene	C ₄₀ H ₅₆	37.18	0.58
	CP02 citromitin	C ₂₁ H ₂₄ O ₈	86.90	0.51
	CP03 nobiletin	C ₂₇ H ₃₂ O ₁₄	61.67	0.52
	CP04 obacunone	C ₂₆ H ₃₀ O ₇	81.58	0.57
	CP05 β-sitosterol	C ₂₉ H ₅₀ O	33.94	0.70
	CP06 sitosterol	C ₂₉ H ₅₀ O	36.91	0.75
	CP07 5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)chroman-4-one	C ₁₆ H ₁₄ O ₆	47.74	0.27
	CP08 naringenin	C ₁₅ H ₁₂ O ₅	59.29	0.21
Angelica sinensis (Danggui)	DG01 chrysanthemaxanthin	C ₄₀ H ₅₆ O ₃	38.72	0.58
	DG02 cnidilin	C ₁₇ H ₁₆ O ₅	32.69	0.28
	DG03 folinicacid	C ₂₀ H ₂₃ N ₇ O ₇	31.79	0.74
	DG04 isoimperatorin	C ₁₆ H ₁₄ O ₄	45.46	0.23
	DG05 phyllanthin	C ₂₄ H ₃₄ O ₆	33.31	0.42
	DG06 suchilactone	C ₂₁ H ₂₀ O ₆	57.52	0.56
	DG07 beta-sitosterol	C ₂₉ H ₅₀ O	36.91	0.75
	DG08 Stigmasterol	C ₂₉ H ₄₈ O	43.83	0.76
Codonopsis pilosula (Dangshen)	DS01 5alpha-stigmastan-3,6-dione	C ₂₉ H ₄₈ O ₂	33.12	0.79
	DS02 5α-stigmasta-7,22-dien-3-one	C ₂₉ H ₄₆ O	42.98	0.76
	DS03 alpha-spinasterol	C ₂₉ H ₄₈ O	42.98	0.76
	DS04 chrysanthemaxanthin	C ₄₀ H ₅₆ O ₃	38.72	0.58
	DS05 daturilin	C ₂₈ H ₃₆ O ₄	50.37	0.77
	DS06 diisocapryl phthalate	C ₂₄ H ₃₈ O ₄	43.59	0.39
	DS07 friedelin	C ₃₀ H ₅₀ O	29.16	0.76
	DS08 frutinone a	C ₁₆ H ₈ O ₄	65.9	0.34
	DS09 glycitein	C ₁₆ H ₁₂ O ₅	50.48	0.24
	DS10 methyl octadecadienoate	C ₁₉ H ₃₄ O ₂	41.93	0.17
	DS11 stigmasta-5	C ₂₉ H ₄₈ O	36.91	0.75
	DS12 stigmasta-5,22-dien-3-one	C ₂₉ H ₄₆ O	43.83	0.76
	DS13 taraxerol	C ₃₀ H ₅₀ O	38.4	0.77

	DS14	α -spinasterol	C ₂₉ H ₄₈ O	42.98	0.76
	DS15	3-beta-Hydroxymethylenetanshiquinone	C ₁₈ H ₁₄ O ₄	32.16	0.41
	DS16	luteolin	C ₁₅ H ₁₀ O ₆	36.16	0.25
	DS17	stigmast-7-enol	C ₂₉ H ₅₀ O	37.42	0.75
	DS18	7-(beta-Xylosyl)cephalomannine_qt	C ₄₃ H ₅₃ O ₁₃ N	38.33	0.29
	DS19	methyl icosa-11,14-dienoate	C ₂₁ H ₃₈ O ₂	39.67	0.23
	DS20	Spinoside A	C ₃₉ H ₅₆ O ₁₂	39.97	0.4
	DS21	11-Hydroxyrankinidine	C ₁₈ H ₂₂ O ₄ N ₂	40	0.66
	DS22	7-Methoxy-2-methyl isoflavone	C ₁₇ H ₁₄ O ₃	42.56	0.2
	DS23	poriferasta-7,22E-dien-3beta-ol	C ₂₉ H ₄₈ O	42.98	0.76
	DS24	Spinasterol	C ₂₉ H ₄₈ O	42.98	0.76
	DS25	Diop	C ₂₄ H ₃₈ O ₄	43.59	0.39
	DS26	ZINC03978781	C ₂₉ H ₄₈ O	43.83	0.76
	DS27	Stigmasterol	C ₂₉ H ₄₈ O	43.83	0.76
	DS28	(8S,9S,10R,13R,14S,17R)-17-[(E,2R,5S)-5-ethyl-6-methylhept-3-en-2-yl]-10,13-dimethyl-1,2,4,7,8,9,11,12,14,15,16,17-dodecahydrocyclopenta[a]phenanthren-3-one	C ₂₉ H ₄₆ O	45.4	0.76
	HJ01	DFV	C ₁₅ H ₁₂ O ₄	32.76	0.18
	HJ02	baicalein	C ₁₅ H ₁₀ O ₅	33.52	0.21
	HJ03	3'-Methoxydaidzein	C ₁₆ H ₁₂ O ₅	48.57	0.24
	HJ04	beta-sitosterol	C ₂₉ H ₅₀ O	36.91	0.75
	HJ05	sitosterol	C ₂₉ H ₅₀ O	36.91	0.75
Polygonatum sibiricum Red. (Huangjing)	HJ06	methylprotodioscin_qt	C ₂₈ H ₄₆ O ₃	35.12	0.86
	HJ07	(2R)-7-hydroxy-2-(4-hydroxyphenyl)chroman-4-one	C ₁₅ H ₁₂ O ₄	71.12	0.18
	HJ08	diosgenin	C ₂₇ H ₄₂ O ₃	80.88	0.81
	HJ09	4',5-Dihydroxyflavone	C ₁₅ H ₁₀ O ₄	48.55	0.19
	HJ10	sibiricoside A_qt	C ₂₇ H ₄₄ O ₄	35.26	0.86
	HJ11	Syringaresinol-O-beta-D-glucoside	C ₂₈ H ₃₆ O ₁₃	43.35	0.77
	HJ12	zhonghualiaoine 1	C ₂₉ H ₄₈ O ₃	34.72	0.78
	HQ01	isoflavanone	C ₁₆ H ₁₄ O ₆	109.99	0.3
	HQ02	7-O-methylisomucronulatol	C ₁₈ H ₂₀ O ₅	74.69	0.3
	HQ03	formononetin	C ₁₆ H ₁₂ O ₄	69.67	0.21
	HQ04	FA	C ₁₉ H ₁₉ N ₇ O ₆	68.96	0.71
Astragalus membranaceus (Huangqi)	HQ05	(3R)-3-(2-hydroxy-3,4-dimethoxyphenyl)chroman-7-ol	C ₁₇ H ₁₈ O ₅	67.67	0.26
	HQ06	(6aR,11aR)-9,10-dimethoxy-6a,11a-dihydro-6H-benzofurano[3,2-c]chromen-3-ol	C ₁₇ H ₁₆ O ₅	64.26	0.42
	HQ07	Mairin	C ₃₀ H ₄₈ O ₃	55.38	0.78
	HQ08	3,9-di-O-methylnissolin	C ₁₈ H ₁₈ O ₅	53.74	0.48
	HQ09	Jaranol	C ₁₇ H ₁₄ O ₆	50.83	0.29
	HQ10	isorhamnetin	C ₁₆ H ₁₂ O ₇	49.6	0.31
	HQ11	isomucronulatol-7,2'-di-O-glucosiole	C ₂₉ H ₃₈ O ₁₅	49.28	0.62

	HQ12	Calycosin	C ₁₆ H ₁₂ O ₅	47.75	0.24
	HQ13	quercetin	C ₁₅ H ₁₀ O ₇	46.43	0.28
	HQ14	kaempferol	C ₁₅ H ₁₀ O ₆	41.88	0.24
	HQ15	5'-hydroxyiso-muronulatol-2',5'-di-O-glucoside	C ₂₉ H ₃₈ O ₁₆	41.72	0.69
	HQ16	1,7-Dihydroxy-3,9-dimethoxy pterocarpene	C ₁₇ H ₁₄ O ₆	39.05	0.48
	HQ17	hederagenin	C ₂₉ H ₅₀ O	36.91	0.75
	HQ18	9,10-dimethoxypterocarpan-3-O-β-D-glucoside (3S,8S,10R,13R,14S,17R)-10,13-dimethyl-17-[(2R,5S)-5-propan-2-ylloctan-2-yl]-2,3,4,7,8,9,11,12,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol	C ₂₃ H ₂₈ O ₁₀	36.74	0.92
	HQ19		C ₃₀ H ₅₂ O	36.23	0.78
	HQ20	Bifendate	C ₂₀ H ₁₈ O ₁₀	31.1	0.67
	HQ21	astragalosideI_qt	C ₃₉ H ₆₂ O ₁₁	12.34	0.2
	HQ22	astragalosideII_qt	C ₃₇ H ₆₀ O ₁₀	11.55	0.25
	HQ23	astragalosideIV_qt	C ₃₅ H ₅₈ O ₉	7.07	0.32
	HQ24	astragalosideIII_qt	C ₃₅ H ₅₈ O ₉	5.35	0.32
	HQ25	medicarpin	C ₁₆ H ₁₄ O ₄	49.22	0.34
	HQ26	chrysanthemaxanthin	C ₄₀ H ₅₆ O ₃	38.72	0.58
	HQ27	kumatakenin	C ₁₇ H ₁₄ O ₆	50.83	0.29
	HQ28	β-sitosterol	C ₂₇ H ₃₀ O ₁₂	33.94	0.7
	SR01	meletin	C ₁₅ H ₁₀ O ₇	46.43	0.28
	SR02	quercetin	C ₁₅ H ₉ O ₇ -	46.43	0.28
	SR03	stigmasterol	C ₃₀ H ₅₀	43.83	0.76
	SR04	24-Ethylcholest-4-en-3-one	C ₂₉ H ₄₈ O	36.08	0.76
	SR05	poriferast-5-en-3beta-ol	C ₂₉ H ₅₀ O	36.91	0.75
	SR06	Sitosteryl acetate	C ₃₁ H ₅₂ O ₂	40.39	0.85
<i>Amomum</i>	SR07	beta-sitosterol	C ₂₉ H ₅₀ O	36.91	0.75
<i>villosum Lour.</i>	SR08	icosa-11,14,17-trienoic acid methyl ester	C ₂₁ H ₃₆ O ₂	44.81	0.23
(Sharen)	SR09	vitamin-e	C ₂₄ H ₃₄ N ₄ O ₅ S	32.29	0.7
	SR10	methyl icosa-11,14-dienoate (5S,8S,9S,10R,13R,14S,17R)-17-[(1R,4R)-4-ethyl-1,5-dimethylhexyl]-10,13-dimethyl-2,4,5,7,8,9,11,12,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthrene-3,6-dione	C ₂₁ H ₃₈ O ₂	39.67	0.23
	SR11		C ₂₉ H ₄₈ O ₂	33.12	0.79
	SR12	Stigmasta-5,22-dien-3-beta-yl acetate	C ₃₁ H ₅₀ O ₂	46.44	0.86
<i>Druce (Yuzhu)</i>	YZ01	3-o-beta-d-glucopyranosyl-(1-2)-[beta-d-xylopyranosyl-(1-3)]-beta-d-glucopyranosyl-(1-4)-galactopyranosyl-25(S)-spirost-5(6)-en-3beta,14alpho-diol ₁ _qt	C ₂₇ H ₄₂ O ₄	104.58	0.79
	YZ02	4',5,7-trihydroxy-6-methyl-8-methoxy-homoisoflavanone	C ₁₈ H ₁₈ O ₆	89.7	0.33

YZ03	4',5,7-trihydroxy-6,8-dimethyl-homoisoflavanone	C ₁₈ H ₁₈ O ₅	59.76	0.3
YZ04	polygosides E_qt	C ₂₇ H ₃₆ O ₃	38.73	0.78
YZ05	4',5,7-trihydroxy-6-methyl-homoisoflavanone	C ₁₇ H ₁₈ O ₅	82.94	0.27
YZ06	4'-methoxy-5,7-dihydroxy-6,8-dimethyl-homoisflavanone	C ₁₉ H ₂₂ O ₅	57.14	0.34
YZ07	n-coumaroyltyramine	C ₁₇ H ₁₇ NO ₃	85.63	0.2
YZ08	(Z)-3-(4-hydroxy-3-methoxy-phenyl)-N-[2-(4-hydroxyphenyl)ethyl]acrylamide	C ₁₈ H ₁₉ NO ₄	118.35	0.26

Table S3 Target information of potential active ingredients of Maca compound preparations

No.	Uniprot ID	Target protein	Target gene	Frequency
1	P03372	Estrogen receptor alpha	ESR1	47
2	P30542	Adenosine A1 receptor	ADORA1	38
3	P29274	Adenosine A2a receptor (by homology)	ADORA2A	38
4	P12931	Tyrosine-protein kinase SRC	SRC	31
5	P23975	Norepinephrine transporter	SLC6A2	31
6	P37231	Peroxisome proliferator-activated receptor gamma	PPARG	31
7	P08185	Corticosteroid binding globulin	SERPINA6	29
8	P31645	Serotonin transporter	SLC6A4	29
9	P08581	Hepatocyte growth factor receptor	MET	28
10	P0DMS8	Adenosine A3 receptor	ADORA3	27
11	P33261	Cytochrome P450 2C19	CYP2C19	27
12	P04150	Glucocorticoid receptor	NR3C1	26
13	P42336	PI3-kinase p110-alpha subunit	PIK3CA	26
14	Q9UNQ0	ATP-binding cassette sub-family G member 2	ABCG2	24
15	P00533	Epidermal growth factor receptor erbB1	EGFR	24
16	Q16678	Cytochrome P450 1B1	CYP1B1	23
17	Q9Y233	Phosphodiesterase 10A	PDE10A	23
18	P11413	Glucose-6-phosphate 1-dehydrogenase	G6PD	23
19	P42345	Serine/threonine-protein kinase mTOR	MTOR	23
20	P27338	Monoamine oxidase B	MAOB	21
21	P10721	Stem cell growth factor receptor	KIT	21
22	P36888	Tyrosine-protein kinase receptor FLT3	FLT3	21
23	P28223	Serotonin 2a (5-HT2a) receptor (by homology)	HTR2A	20
24	P21397	Monoamine oxidase A	MAOA	19
25	Q9UM73	ALK tyrosine kinase receptor	ALK	19
26	O14965	Serine/threonine-protein kinase Aurora-A	AURKA	18
27	P00519	Tyrosine-protein kinase ABL	ABL1	18
28	P00734	Thrombin	F2	18
29	P14780	Matrix metalloproteinase 9	MMP9	17

30	P05177	Cytochrome P450 1A2	CYP1A2	17
31	P29275	Adenosine A2b receptor	ADORA2B	17
32	P42338	PI3-kinase p110-beta subunit	PIK3CB	16
33	O00329	PI3-kinase p110-delta subunit	PIK3CD	16
34	O14746	Telomerase reverse transcriptase	TERT	15
35	P14416	Dopamine D2 receptor (by homology)	DRD2	14
36	P11362	Fibroblast growth factor receptor 1	FGFR1	14
37	Q08499	Phosphodiesterase 4D	PDE4D	13
38	P07900	Heat shock protein HSP 90-alpha	HSP90AA1	12
39	P09619	Platelet-derived growth factor receptor beta	PDGFRB	12
40	P27986	PI3-kinase p85-alpha subunit	PIK3R1	12
41	P35462	Dopamine D3 receptor	DRD3	12
42	O60674	Tyrosine-protein kinase JAK2	JAK2	11
43	P11802	Cyclin-dependent kinase 4	CDK4	11
44	Q01959	Dopamine transporter	SLC6A3	11
45	O76074	Phosphodiesterase 5A	PDE5A	10
46	P60568	Interleukin-2	IL2	10
47	P31749	Serine/threonine-protein kinase AKT	AKT1	10
48	Q13946	Phosphodiesterase 7A	PDE7A	9
49	P36544	Neuronal acetylcholine receptor protein alpha-7 subunit	CHRNA7	9
50	P10415	Apoptosis regulator Bcl-2	BCL2	9
51	P08684	Cytochrome P450 3A4	CYP3A4	9
52	P15056	Serine/threonine-protein kinase B-raf	BRAF	9
53	Q06124	Protein-tyrosine phosphatase 2C	PTPN11	9
54	P42574	Caspase-3	CASP3	8
55	Q02750	Dual specificity mitogen-activated protein kinase kinase 1	MAP2K1	8
56	P11712	Cytochrome P450 2C9	CYP2C9	8
57	Q07343	Phosphodiesterase 4B	PDE4B	8
58	P21728	Dopamine D1 receptor	DRD1	8
59	P04049	Serine/threonine-protein kinase RAF	RAF1	8
60	P13500	C-C motif chemokine 2	CCL2	8
61	P15692	Vascular endothelial growth factor A	VEGFA	7
62	P78527	DNA-dependent protein kinase	PRKDC	7
63	P27815	Phosphodiesterase 4A	PDE4A	7
64	P08246	Leukocyte elastase	ELANE	7
65	P98170	Inhibitor of apoptosis protein 3	XIAP	7
66	O00408	Phosphodiesterase 2A	PDE2A	6
67	P01375	TNF-alpha	TNF	6
68	P05164	Myeloperoxidase	MPO	6
69	Q08493	Phosphodiesterase 4C	PDE4C	6
70	P40763	Signal transducer and activator of transcription 3	STAT3	6
71	O76083	Phosphodiesterase 9A	PDE9A	5

72	P41180	Calcium sensing receptor	CASR	5
73	P27169	Serum paraoxonase/arylesterase 1	PON1	5
74	Q06187	Tyrosine-protein kinase BTK	BTK	5
75	P07949	Kinesin-1 heavy chain/ Tyrosine-protein kinase receptor RET	RET	4
76	P41235	Hepatocyte nuclear factor 4-alpha	HNF4A	4
77	P22607	Fibroblast growth factor receptor 3	FGFR3	4
78	P08908	Serotonin 1a (5-HT1a) receptor	HTR1A	4
79	Q14432	Phosphodiesterase 3	PDE3A	4
80	Q13370	Phosphodiesterase 3B	PDE3B	4
81	P04626	Receptor protein-tyrosine kinase erbB-2	ERBB2	4
82	P36897	TGF-beta receptor type I	TGFB1	4
83	P10635	Cytochrome P450 2D6	CYP2D6	4
84	Q14524	Sodium channel protein type V alpha subunit	SCN5A	3
85	P10276	Retinoic acid receptor alpha	RARA	3
86	O75874	Isocitrate dehydrogenase [NADP] cytoplasmic	IDH1	3
87	P00558	Phosphoglycerate kinase 1	PGK1	3
88	P04798	Cytochrome P450 1A1	CYP1A1	3
89	P35368	Alpha-1b adrenergic receptor	ADRA1B	3
90	O95263	Phosphodiesterase 8B	PDE8B	2
91	P16234	Platelet-derived growth factor receptor alpha	PDGFRA	2
92	P01112	Transforming protein p21/H-Ras-1	HRAS	2
93	P11217	Muscle glycogen phosphorylase	PYGM	2
94	P14222	Perforin-1	PRF1	2
95	P21964	Catechol O-methyltransferase	COMT	2
96	P46098	Serotonin 3a (5-HT3a) receptor (by homology)	HTR3A	2
97	P04062	Beta-glucocerebrosidase	GBA	2
98	P21802	Fibroblast growth factor receptor 2	FGFR2	2
99	P11166	Glucose transporter	SLC2A1	2
100	P19525	Interferon-induced, double-stranded RNA-activated protein kinase	EIF2AK2	2
101	Q9Y6K1	DNA (cytosine-5)-methyltransferase 3A	DNMT3A	1
102	Q13315	Serine-protein kinase ATM	ATM	1
103	Q9HCR9	Phosphodiesterase 11A	PDE11A	1
104	P19438	Tumor necrosis factor receptor R1	TNFRSF1A	1
105	P01137	Transforming growth factor beta-1	TGFB1	1
106	P29475	Nitric-oxide synthase, brain	NOS1	1
107	Q9HC29	Nucleotide-binding oligomerization domain-containing protein 2	NOD2	1
108	Q9Y2R2	Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP	PTPN22	1
109	Q01064	Phosphodiesterase 1B	PDE1B	1
110	Q09472	Histone acetyltransferase p300	EP300	1
111	Q01432	AMP deaminase 3	AMPD3	1

112	P05362	Intercellular adhesion molecule-1	ICAM1	1
113	Q9Y5N1	Histamine H3 receptor	HRH3	1
114	P21554	Cannabinoid receptor 1	CNR1	1
115	Q99250	Sodium channel protein type II alpha subunit	SCN2A	1
116	P16499	Phosphodiesterase 6A	PDE6A	1