



WEB-based GENE SeT Analysis Toolkit

WebGestalt *Translating gene lists into biological insights...*

User data and parameters: User data: `textAreaUpload.txt`, Organism: `hsapiens`, Id Type: `gene_symbol`, Ref Set: `illumina_humanwg_6_v3`, Significance Level: `Top10`, Statistics Test: `Hypergeometric`, MTC: `BH`, Minimum: `2`

The results for the enriched GO category are listed in this table. For each GO category, the first row lists its sub-root (biological process, molecular function, or cellular component), category name, and corresponding GO ID. The second row lists the following statistics:

- C: the number of reference genes in the category
- O: the number of genes in the gene set and also in the category
- E: the expected number in the category
- R: ratio of enrichment
- rawP: p value from hypergeometric test
- adjP: p value adjusted by the multiple test adjustment

Finally, genes in the category are listed. For each gene, the table lists the user uploaded ID and value (optional), Entrez ID, Ensembl Gene Stable ID, Gene symbol, and description. Ensembl Gene Stable ID and Entrez Gene ID are linked to the Ensembl and Entrez Gene databases, respectively.

Database:biological process		Name:system development		ID:GO:0048731		
C=3334; O=43; E=21.26; R=2.02; rawP=3.26e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	KLF2	NA	KLF2	Kruppel-like factor 2 (lung)	10365	ENSG00000127528
3 <input type="checkbox"/>	ADAM19	NA	ADAM19	ADAM metallopeptidase domain 19	8728	ENSG00000135074
4 <input type="checkbox"/>	ID1	NA	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	3397	ENSG00000125968
5 <input type="checkbox"/>	CRYAB	NA	CRYAB	crystallin, alpha B	1410	ENSG00000109846
6 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
7 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
8 <input type="checkbox"/>	PPL	NA	PPL	periplakin	5493	ENSG00000118898
9 <input type="checkbox"/>	OSR2	NA	OSR2	odd-skipped related 2 (Drosophila)	116039	ENSG00000164920
10 <input type="checkbox"/>	TNFRSF19	NA	TNFRSF19	tumor necrosis factor receptor superfamily, member 19	55504	ENSG00000127863
11 <input type="checkbox"/>	HOXB2	NA	HOXB2	homeobox B2	3212	ENSG00000173917

Database:biological process Name:system development ID:GO:0048731						
C=3334; O=43; E=21.26; R=2.02; rawP=3.26e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
12 <input type="checkbox"/>	RAC2	NA	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	5880	ENSG00000128340
13 <input type="checkbox"/>	NR0B1	NA	NR0B1	nuclear receptor subfamily 0, group B, member 1	190	ENSG00000169297
14 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
15 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
16 <input type="checkbox"/>	TFAP2A	NA	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	7020	ENSG00000137203
17 <input type="checkbox"/>	GSTM3	NA	GSTM3	glutathione S-transferase mu 3 (brain)	2947	ENSG00000134202
18 <input type="checkbox"/>	ODZ3	NA	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)	55714	ENSG00000218336
19 <input type="checkbox"/>	CCND2	NA	CCND2	cyclin D2	894	ENSG00000118971
20 <input type="checkbox"/>	SCN2A	NA	SCN2A	sodium channel, voltage-gated, type II, alpha subunit	6326	ENSG00000136531
21 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
22 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
23 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
24 <input type="checkbox"/>	ZHX2	NA	ZHX2	zinc fingers and homeoboxes 2	22882	ENSG00000178764
25 <input type="checkbox"/>	BDNF	NA	BDNF	brain-derived neurotrophic factor	627	ENSG00000176697
26 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
27 <input type="checkbox"/>	FGF2	NA	FGF2		2247	ENSG00000138685

Database:biological process Name:system development ID:GO:0048731						
C=3334; O=43; E=21.26; R=2.02; rawP=3.26e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				fibroblast growth factor 2 (basic)		
28 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
29 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
30 <input type="checkbox"/>	CRIP2	NA	CRIP2	cysteine-rich protein 2	1397	ENSG00000182809
31 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557
32 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
33 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
34 <input type="checkbox"/>	MGST1	NA	MGST1	microsomal glutathione S-transferase 1	4257	ENSG00000008394
35 <input type="checkbox"/>	PALM	NA	PALM	paralemmin	5064	ENSG00000099864
36 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
37 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
38 <input type="checkbox"/>	SVIL	NA	SVIL	supervillin	6840	ENSG00000197321
39 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
40 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
41 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
42 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139
43 <input type="checkbox"/>	SPRY1	NA	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	10252	ENSG00000164056

Database:biological process Name:system development ID:GO:0048731						
C=3334; O=43; E=21.26; R=2.02; rawP=3.26e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl

Database:biological process Name:multicellular organismal process ID:GO:0032501						
C=5281; O=56; E=33.68; R=1.66; rawP=8.28e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	KLF2	NA	KLF2	Kruppel-like factor 2 (lung)	10365	ENSG000000127528
3 <input type="checkbox"/>	PSG5	NA	PSG5	pregnancy specific beta-1-glycoprotein 5	5673	ENSG000000204941
4 <input type="checkbox"/>	ADAM19	NA	ADAM19	ADAM metallopeptidase domain 19	8728	ENSG000000135074
5 <input type="checkbox"/>	ID1	NA	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	3397	ENSG000000125968
6 <input type="checkbox"/>	CRYAB	NA	CRYAB	crystallin, alpha B	1410	ENSG000000109846
7 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG000000111341
8 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG000000050555
9 <input type="checkbox"/>	PPL	NA	PPL	periplakin	5493	ENSG000000118898
10 <input type="checkbox"/>	OSR2	NA	OSR2	odd-skipped related 2 (Drosophila)	116039	ENSG000000164920
11 <input type="checkbox"/>	TNFRSF19	NA	TNFRSF19	tumor necrosis factor receptor superfamily, member 19	55504	ENSG000000127863
12 <input type="checkbox"/>	DHRS3	NA	DHRS3	dehydrogenase/reductase (SDR family) member 3	9249	ENSG000000162496
13 <input type="checkbox"/>	PSG3	NA	PSG3	pregnancy specific beta-1-glycoprotein 3	5671	ENSG000000221826
14 <input type="checkbox"/>	HOXB2	NA	HOXB2	homeobox B2	3212	ENSG000000173917
15 <input type="checkbox"/>	RAC2	NA	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	5880	ENSG000000128340
16 <input type="checkbox"/>	NROB1	NA	NROB1	nuclear receptor subfamily 0, group B, member 1	190	ENSG000000169297
17 <input type="checkbox"/>	PPAP2A	NA	PPAP2A	phosphatidic acid phosphatase type 2A	8611	ENSG000000067113

Database:biological process		Name:multicellular organismal process			ID:GO:0032501	
C=5281; O=56; E=33.68; R=1.66; rawP=8.28e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
18 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
19 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
20 <input type="checkbox"/>	TFAP2A	NA	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	7020	ENSG00000137203
21 <input type="checkbox"/>	ZNF521	NA	ZNF521	zinc finger protein 521	25925	ENSG00000198795
22 <input type="checkbox"/>	SGK1	NA	SGK1	serum/glucocorticoid regulated kinase 1	6446	ENSG00000118515
23 <input type="checkbox"/>	GSTM3	NA	GSTM3	glutathione S-transferase mu 3 (brain)	2947	ENSG00000134202
24 <input type="checkbox"/>	ODZ3	NA	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)	55714	ENSG00000218336
25 <input type="checkbox"/>	PROS1	NA	PROS1	protein S (alpha)	5627	ENSG00000184500
26 <input type="checkbox"/>	CCND2	NA	CCND2	cyclin D2	894	ENSG00000118971
27 <input type="checkbox"/>	SCN2A	NA	SCN2A	sodium channel, voltage-gated, type II, alpha subunit	6326	ENSG00000136531
28 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
29 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
30 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
31 <input type="checkbox"/>	TXNRD1	NA	TXNRD1	thioredoxin reductase 1	7296	ENSG00000198431
32 <input type="checkbox"/>	ZHX2	NA	ZHX2	zinc fingers and homeoboxes 2	22882	ENSG00000178764
33 <input type="checkbox"/>	BDNF	NA	BDNF	brain-derived neurotrophic factor	627	ENSG00000176697
34 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
35 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
36 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
37 <input type="checkbox"/>	CREG1	NA	CREG1	cellular repressor of E1A-stimulated genes 1	8804	ENSG00000143162
38 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
39 <input type="checkbox"/>	CRIP2	NA	CRIP2	cysteine-rich protein 2	1397	ENSG00000182809

Database:biological process		Name:multicellular organismal process			ID:GO:0032501	
C=5281; O=56; E=33.68; R=1.66; rawP=8.28e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
40 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557
41 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
42 <input type="checkbox"/>	PSG9	NA	PSG9	pregnancy specific beta-1-glycoprotein 9	5678	ENSG00000183668
43 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
44 <input type="checkbox"/>	ISG15	NA	ISG15	ISG15 ubiquitin-like modifier	9636	ENSG00000187608
45 <input type="checkbox"/>	MGST1	NA	MGST1	microsomal glutathione S-transferase 1	4257	ENSG00000008394
46 <input type="checkbox"/>	PSG6	NA	PSG6	pregnancy specific beta-1-glycoprotein 6	5675	ENSG00000170848
47 <input type="checkbox"/>	GLS	NA	GLS	glutaminase	2744	ENSG00000115419
48 <input type="checkbox"/>	PALM	NA	PALM	paralemmin	5064	ENSG00000099864
49 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
50 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
51 <input type="checkbox"/>	SVIL	NA	SVIL	supervillin	6840	ENSG00000197321
52 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
53 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
54 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
55 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139
56 <input type="checkbox"/>	SPRY1	NA	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	10252	ENSG00000164056

Database:biological process development		Name:multicellular organismal ID:GO:0007275				
C=3833; O=46; E=24.44; R=1.88; rawP=7.84e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	KLF2	NA	KLF2	Kruppel-like factor 2 (lung)	10365	ENSG00000127528
3 <input type="checkbox"/>	ADAM19	NA	ADAM19	ADAM metallopeptidase domain 19	8728	ENSG00000135074
4 <input type="checkbox"/>	ID1	NA	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	3397	ENSG00000125968
5 <input type="checkbox"/>	CRYAB	NA	CRYAB	crystallin, alpha B	1410	ENSG00000109846
6 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
7 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
8 <input type="checkbox"/>	PPL	NA	PPL	periplakin	5493	ENSG00000118898
9 <input type="checkbox"/>	OSR2	NA	OSR2	odd-skipped related 2 (Drosophila)	116039	ENSG00000164920
10 <input type="checkbox"/>	TNFRSF19	NA	TNFRSF19	tumor necrosis factor receptor superfamily, member 19	55504	ENSG00000127863
11 <input type="checkbox"/>	HOXB2	NA	HOXB2	homeobox B2	3212	ENSG00000173917
12 <input type="checkbox"/>	RAC2	NA	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	5880	ENSG00000128340
13 <input type="checkbox"/>	NR0B1	NA	NR0B1	nuclear receptor subfamily 0, group B, member 1	190	ENSG00000169297
14 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
15 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
16 <input type="checkbox"/>	TFAP2A	NA	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	7020	ENSG00000137203

Database:biological process development		Name:multicellular organismal ID:GO:0007275				
C=3833; O=46; E=24.44; R=1.88; rawP=7.84e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
17 <input type="checkbox"/>	ZNF521	NA	ZNF521	zinc finger protein 521	25925	ENSG00000198795
18 <input type="checkbox"/>	GSTM3	NA	GSTM3	glutathione S-transferase mu 3 (brain)	2947	ENSG00000134202
19 <input type="checkbox"/>	ODZ3	NA	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)	55714	ENSG00000218336
20 <input type="checkbox"/>	CCND2	NA	CCND2	cyclin D2	894	ENSG00000118971
21 <input type="checkbox"/>	SCN2A	NA	SCN2A	sodium channel, voltage-gated, type II, alpha subunit	6326	ENSG00000136531
22 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
23 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
24 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
25 <input type="checkbox"/>	TXNRD1	NA	TXNRD1	thioredoxin reductase 1	7296	ENSG00000198431
26 <input type="checkbox"/>	ZHX2	NA	ZHX2	zinc fingers and homeoboxes 2	22882	ENSG00000178764
27 <input type="checkbox"/>	BDNF	NA	BDNF	brain-derived neurotrophic factor	627	ENSG00000176697
28 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
29 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
30 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
31 <input type="checkbox"/>	CREG1	NA	CREG1	cellular repressor of E1A-stimulated genes 1	8804	ENSG00000143162
32 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
33 <input type="checkbox"/>	CRIP2	NA	CRIP2	cysteine-rich protein 2	1397	ENSG00000182809
34 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557

		Database:biological process development		Name:multicellular organismal ID:GO:0007275		
C=3833; O=46; E=24.44; R=1.88; rawP=7.84e-07; adjP=0.0003						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
35 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
36 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
37 <input type="checkbox"/>	MGST1	NA	MGST1	microsomal glutathione S-transferase 1	4257	ENSG00000008394
38 <input type="checkbox"/>	PALM	NA	PALM	paralemmin	5064	ENSG00000099864
39 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
40 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
41 <input type="checkbox"/>	SVIL	NA	SVIL	supervillin	6840	ENSG00000197321
42 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
43 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
44 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
45 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139
46 <input type="checkbox"/>	SPRY1	NA	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	10252	ENSG00000164056

		Database:biological process development		Name:anatomical structure ID:GO:0048856		
C=3809; O=44; E=24.29; R=1.81; rawP=5.41e-06; adjP=0.0013						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	KLF2	NA	KLF2		10365	ENSG00000127528

Database:biological process		Name:anatomical structure				
development		ID:GO:0048856				
C=3809; O=44; E=24.29; R=1.81; rawP=5.41e-06; adjP=0.0013						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				Kruppel-like factor 2 (lung)		
3 <input type="checkbox"/>	ADAM19	NA	ADAM19	ADAM metallopeptidase domain 19	8728	ENSG00000135074
4 <input type="checkbox"/>	ID1	NA	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	3397	ENSG00000125968
5 <input type="checkbox"/>	CRYAB	NA	CRYAB	crystallin, alpha B	1410	ENSG00000109846
6 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
7 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
8 <input type="checkbox"/>	PPL	NA	PPL	periplakin	5493	ENSG00000118898
9 <input type="checkbox"/>	OSR2	NA	OSR2	odd-skipped related 2 (Drosophila)	116039	ENSG00000164920
10 <input type="checkbox"/>	TNFRSF19	NA	TNFRSF19	tumor necrosis factor receptor superfamily, member 19	55504	ENSG00000127863
11 <input type="checkbox"/>	HOXB2	NA	HOXB2	homeobox B2	3212	ENSG00000173917
12 <input type="checkbox"/>	RAC2	NA	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	5880	ENSG00000128340
13 <input type="checkbox"/>	NROB1	NA	NROB1	nuclear receptor subfamily 0, group B, member 1	190	ENSG00000169297
14 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
15 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
16 <input type="checkbox"/>	TFAP2A	NA	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	7020	ENSG00000137203
17 <input type="checkbox"/>	GSTM3	NA	GSTM3		2947	ENSG00000134202

Database:biological process development		Name:anatomical structure ID:GO:0048856				
C=3809; O=44; E=24.29; R=1.81; rawP=5.41e-06; adjP=0.0013						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				glutathione S-transferase mu 3 (brain)		
18 <input type="checkbox"/>	ODZ3	NA	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)	55714	ENSG00000218336
19 <input type="checkbox"/>	CCND2	NA	CCND2	cyclin D2	894	ENSG00000118971
20 <input type="checkbox"/>	SCN2A	NA	SCN2A	sodium channel, voltage-gated, type II, alpha subunit	6326	ENSG00000136531
21 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
22 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
23 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
24 <input type="checkbox"/>	TXNRD1	NA	TXNRD1	thioredoxin reductase 1	7296	ENSG00000198431
25 <input type="checkbox"/>	ZHX2	NA	ZHX2	zinc fingers and homeoboxes 2	22882	ENSG00000178764
26 <input type="checkbox"/>	BDNF	NA	BDNF	brain-derived neurotrophic factor	627	ENSG00000176697
27 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
28 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
29 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
30 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
31 <input type="checkbox"/>	CRIP2	NA	CRIP2	cysteine-rich protein 2	1397	ENSG00000182809
32 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557
33 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
34 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid	8644	ENSG00000196139

Database:biological process		Name:anatomical structure		ID:GO:0048856		
C=3809; O=44; E=24.29; R=1.81; rawP=5.41e-06; adjP=0.0013						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				dehydrogenase, type II)		
35 <input type="checkbox"/>	MGST1	NA	MGST1	microsomal glutathione S-transferase 1	4257	ENSG00000008394
36 <input type="checkbox"/>	PALM	NA	PALM	paralemmin	5064	ENSG00000099864
37 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
38 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
39 <input type="checkbox"/>	SVIL	NA	SVIL	supervillin	6840	ENSG00000197321
40 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
41 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
42 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
43 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139
44 <input type="checkbox"/>	SPRY1	NA	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	10252	ENSG00000164056

Database:biological process		Name:biological adhesion		ID:GO:0022610		
C=898; O=18; E=5.73; R=3.14; rawP=1.13e-05; adjP=0.0018						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	TNFAIP6	NA	TNFAIP6	tumor necrosis factor, alpha-induced protein 6	7130	ENSG00000123610
2 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
3 <input type="checkbox"/>	CLDN23	NA	CLDN23	claudin 23	137075	ENSG00000253958
4 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
5 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341

Database:biological process Name:biological adhesion ID:GO:0022610						
C=898; O=18; E=5.73; R=3.14; rawP=1.13e-05; adjP=0.0018						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
6 <input type="checkbox"/>	RAPH1	NA	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	65059	ENSG00000173166
7 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
8 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557
9 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
10 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
11 <input type="checkbox"/>	DCBLD2	NA	DCBLD2	discoidin, CUB and LCCL domain containing 2	131566	ENSG00000057019
12 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
13 <input type="checkbox"/>	CDH10	NA	CDH10	cadherin 10, type 2 (T2-cadherin)	1008	ENSG00000040731
14 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
15 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
16 <input type="checkbox"/>	ODZ3	NA	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)	55714	ENSG00000218336
17 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
18 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196

Database:biological process Name:cell adhesion ID:GO:0007155						
C=896; O=18; E=5.71; R=3.15; rawP=1.09e-05; adjP=0.0018						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	TNFAIP6	NA	TNFAIP6	tumor necrosis factor, alpha-induced protein 6	7130	ENSG00000123610

Database:biological process Name:cell adhesion ID:GO:0007155						
C=896; O=18; E=5.71; R=3.15; rawP=1.09e-05; adjP=0.0018						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
2 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
3 <input type="checkbox"/>	CLDN23	NA	CLDN23	claudin 23	137075	ENSG00000253958
4 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
5 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
6 <input type="checkbox"/>	RAPH1	NA	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	65059	ENSG00000173166
7 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
8 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557
9 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
10 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
11 <input type="checkbox"/>	DCBLD2	NA	DCBLD2	discoidin, CUB and LCCL domain containing 2	131566	ENSG00000057019
12 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
13 <input type="checkbox"/>	CDH10	NA	CDH10	cadherin 10, type 2 (T2-cadherin)	1008	ENSG00000040731
14 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
15 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
16 <input type="checkbox"/>	ODZ3	NA	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)	55714	ENSG00000218336
17 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
18 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196

Database:biological process		Name:response to reactive oxygen species		ID:GO:000302		
C=129; O=7; E=0.82; R=8.51; rawP=1.78e-05; adjP=0.0021						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	TXNRD1	NA	TXNRD1	thioredoxin reductase 1	7296	ENSG00000198431
2 <input type="checkbox"/>	KLF2	NA	KLF2	Kruppel-like factor 2 (lung)	10365	ENSG00000127528
3 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
4 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
5 <input type="checkbox"/>	CRYAB	NA	CRYAB	crystallin, alpha B	1410	ENSG00000109846
6 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
7 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058

Database:biological process		Name:response to chemical stimulus		ID:GO:0042221		
C=2557; O=33; E=16.31; R=2.02; rawP=1.96e-05; adjP=0.0021						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	KLF2	NA	KLF2	Kruppel-like factor 2 (lung)	10365	ENSG00000127528
3 <input type="checkbox"/>	DNAJB4	NA	DNAJB4	DnaJ (Hsp40) homolog, subfamily B, member 4	11080	ENSG00000162616
4 <input type="checkbox"/>	ID1	NA	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	3397	ENSG00000125968
5 <input type="checkbox"/>	CRYAB	NA	CRYAB	crystallin, alpha B	1410	ENSG00000109846
6 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341

Database:biological process Name:response to chemical stimulus ID:GO:0042221						
C=2557; O=33; E=16.31; R=2.02; rawP=1.96e-05; adjP=0.0021						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
7 <input type="checkbox"/>	TNFRSF19	NA	TNFRSF19	tumor necrosis factor receptor superfamily, member 19	55504	ENSG00000127863
8 <input type="checkbox"/>	RAC2	NA	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	5880	ENSG00000128340
9 <input type="checkbox"/>	NROB1	NA	NROB1	nuclear receptor subfamily 0, group B, member 1	190	ENSG00000169297
10 <input type="checkbox"/>	CCL26	NA	CCL26	chemokine (C-C motif) ligand 26	10344	ENSG00000006606
11 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
12 <input type="checkbox"/>	CCL8	NA	CCL8	chemokine (C-C motif) ligand 8	6355	ENSG00000108700
13 <input type="checkbox"/>	TFAP2A	NA	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	7020	ENSG00000137203
14 <input type="checkbox"/>	GSTM3	NA	GSTM3	glutathione S-transferase mu 3 (brain)	2947	ENSG00000134202
15 <input type="checkbox"/>	CCND2	NA	CCND2	cyclin D2	894	ENSG00000118971
16 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
17 <input type="checkbox"/>	AKR1C4	NA	AKR1C4	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	1109	ENSG00000198610
18 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
19 <input type="checkbox"/>	TXNRD1	NA	TXNRD1	thioredoxin reductase 1	7296	ENSG00000198431
20 <input type="checkbox"/>	BDNF	NA	BDNF		627	ENSG00000176697

Database:biological process Name:response to chemical stimulus ID:GO:0042221						
C=2557; O=33; E=16.31; R=2.02; rawP=1.96e-05; adjP=0.0021						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				brain-derived neurotrophic factor		
21 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
22 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
23 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
24 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557
25 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
26 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
27 <input type="checkbox"/>	MGST1	NA	MGST1	microsomal glutathione S-transferase 1	4257	ENSG00000008394
28 <input type="checkbox"/>	ISG15	NA	ISG15	ISG15 ubiquitin-like modifier	9636	ENSG00000187608
29 <input type="checkbox"/>	PLOD2	NA	PLOD2	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2	5352	ENSG00000152952
30 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
31 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
32 <input type="checkbox"/>	ALDH1A1	NA	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	216	ENSG00000165092
33 <input type="checkbox"/>	SPRY1	NA	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	10252	ENSG00000164056

Database:biological process Name:regulation of cell proliferation ID:GO:0042127						
C=1104; O=20; E=7.04; R=2.84; rawP=1.49e-05; adjP=0.0021						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	BDNF	NA	BDNF	brain-derived neurotrophic factor	627	ENSG00000176697
2 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
3 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
4 <input type="checkbox"/>	CRIP2	NA	CRIP2	cysteine-rich protein 2	1397	ENSG00000182809
5 <input type="checkbox"/>	OSR2	NA	OSR2	odd-skipped related 2 (Drosophila)	116039	ENSG00000164920
6 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
7 <input type="checkbox"/>	PPAP2A	NA	PPAP2A	phosphatidic acid phosphatase type 2A	8611	ENSG00000067113
8 <input type="checkbox"/>	CCL26	NA	CCL26	chemokine (C-C motif) ligand 26	10344	ENSG00000006606
9 <input type="checkbox"/>	RAC2	NA	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	5880	ENSG00000128340
10 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
11 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
12 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
13 <input type="checkbox"/>	TFAP2A	NA	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	7020	ENSG00000137203
14 <input type="checkbox"/>	SGK1	NA	SGK1	serum/glucocorticoid regulated kinase 1	6446	ENSG00000118515
15 <input type="checkbox"/>	RARRES1	NA	RARRES1	retinoic acid receptor responder (tazarotene induced) 1	5918	ENSG00000118849

Database:biological process Name:regulation of cell proliferation ID:GO:0042127						
C=1104; O=20; E=7.04; R=2.84; rawP=1.49e-05; adjP=0.0021						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
16 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
17 <input type="checkbox"/>	PODN	NA	PODN	podocan	127435	ENSG00000174348
18 <input type="checkbox"/>	CCND2	NA	CCND2	cyclin D2	894	ENSG00000118971
19 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196
20 <input type="checkbox"/>	SPRY1	NA	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	10252	ENSG00000164056

Database:biological process Name:developmental process ID:GO:0032502						
C=4286; O=46; E=27.33; R=1.68; rawP=2.22e-05; adjP=0.0022						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	KLF2	NA	KLF2	Kruppel-like factor 2 (lung)	10365	ENSG00000127528
3 <input type="checkbox"/>	ADAM19	NA	ADAM19	ADAM metallopeptidase domain 19	8728	ENSG00000135074
4 <input type="checkbox"/>	ID1	NA	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	3397	ENSG00000125968
5 <input type="checkbox"/>	CRYAB	NA	CRYAB	crystallin, alpha B	1410	ENSG00000109846
6 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
7 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
8 <input type="checkbox"/>	PPL	NA	PPL	periplakin	5493	ENSG00000118898
9 <input type="checkbox"/>	OSR2	NA	OSR2	odd-skipped related 2 (Drosophila)	116039	ENSG00000164920
10 <input type="checkbox"/>	TNFRSF19	NA	TNFRSF19	tumor necrosis factor receptor superfamily, member 19	55504	ENSG00000127863
11 <input type="checkbox"/>	HOXB2	NA	HOXB2	homeobox B2	3212	ENSG00000173917

Database:biological process		Name:developmental process		ID:GO:0032502		
C=4286; O=46; E=27.33; R=1.68; rawP=2.22e-05; adjP=0.0022						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
12 <input type="checkbox"/>	RAC2	NA	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	5880	ENSG00000128340
13 <input type="checkbox"/>	NR0B1	NA	NR0B1	nuclear receptor subfamily 0, group B, member 1	190	ENSG00000169297
14 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
15 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
16 <input type="checkbox"/>	TFAP2A	NA	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	7020	ENSG00000137203
17 <input type="checkbox"/>	ZNF521	NA	ZNF521	zinc finger protein 521	25925	ENSG00000198795
18 <input type="checkbox"/>	GSTM3	NA	GSTM3	glutathione S-transferase mu 3 (brain)	2947	ENSG00000134202
19 <input type="checkbox"/>	ODZ3	NA	ODZ3	odz, odd Oz/ten-m homolog 3 (Drosophila)	55714	ENSG00000218336
20 <input type="checkbox"/>	CCND2	NA	CCND2	cyclin D2	894	ENSG00000118971
21 <input type="checkbox"/>	SCN2A	NA	SCN2A	sodium channel, voltage-gated, type II, alpha subunit	6326	ENSG00000136531
22 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
23 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
24 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
25 <input type="checkbox"/>	TXNRD1	NA	TXNRD1	thioredoxin reductase 1	7296	ENSG00000198431
26 <input type="checkbox"/>	ZHX2	NA	ZHX2	zinc fingers and homeoboxes 2	22882	ENSG00000178764
27 <input type="checkbox"/>	BDNF	NA	BDNF		627	ENSG00000176697

Database:biological process		Name:developmental process		ID:GO:0032502		
C=4286; O=46; E=27.33; R=1.68; rawP=2.22e-05; adjP=0.0022						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				brain-derived neurotrophic factor		
28 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
29 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
30 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
31 <input type="checkbox"/>	CREG1	NA	CREG1	cellular repressor of E1A-stimulated genes 1	8804	ENSG00000143162
32 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
33 <input type="checkbox"/>	CRIP2	NA	CRIP2	cysteine-rich protein 2	1397	ENSG00000182809
34 <input type="checkbox"/>	FEZ1	NA	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	9638	ENSG00000149557
35 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
36 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
37 <input type="checkbox"/>	MGST1	NA	MGST1	microsomal glutathione S-transferase 1	4257	ENSG00000008394
38 <input type="checkbox"/>	PALM	NA	PALM	paralemmin	5064	ENSG00000099864
39 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
40 <input type="checkbox"/>	TBX18	NA	TBX18	T-box 18	9096	ENSG00000112837
41 <input type="checkbox"/>	SVIL	NA	SVIL	supervillin	6840	ENSG00000197321
42 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
43 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
44 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085

Database:biological process Name:developmental process ID:GO:0032502						
C=4286; O=46; E=27.33; R=1.68; rawP=2.22e-05; adjP=0.0022						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
45 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139
46 <input type="checkbox"/>	SPRY1	NA	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)	10252	ENSG00000164056

Database:molecular function Name:retinal dehydrogenase activity ID:GO:0001758						
C=6; O=3; E=0.03; R=88.78; rawP=3.40e-06; adjP=0.0006						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	ALDH1A1	NA	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	216	ENSG00000165092
2 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
3 <input type="checkbox"/>	AKR1C4	NA	AKR1C4	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	1109	ENSG00000198610

Database:molecular function Name:oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor ID:GO:0016620						
C=29; O=4; E=0.16; R=24.49; rawP=1.99e-05; adjP=0.0016						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	ALDH1A1	NA	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	216	ENSG00000165092
2 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid	8644	ENSG00000196139

Database:molecular function Name:oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor ID:GO:0016620						
C=29; O=4; E=0.16; R=24.49; rawP=1.99e-05; adjP=0.0016						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				dehydrogenase, type II)		
3 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
4 <input type="checkbox"/>	AKR1C4	NA	AKR1C4	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	1109	ENSG00000198610

Database:molecular function Name:glycosaminoglycan binding ID:GO:0005539						
C=164; O=7; E=0.92; R=7.58; rawP=3.75e-05; adjP=0.0021						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	TNFAIP6	NA	TNFAIP6	tumor necrosis factor, alpha-induced protein 6	7130	ENSG00000123610
3 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
4 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
5 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
6 <input type="checkbox"/>	CCL8	NA	CCL8	chemokine (C-C motif) ligand 8	6355	ENSG00000108700
7 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085

Database:molecular function activity Name:aldo-keto reductase (NADP) ID:GO:0004033						
C=17; O=3; E=0.10; R=31.33; rawP=0.0001; adjP=0.0023						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3	8644	ENSG00000196139

Database:molecular function activity		Name:aldo-keto reductase (NADP) ID:GO:0004033				
C=17; O=3; E=0.10; R=31.33; rawP=0.0001; adjP=0.0023						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				(3-alpha hydroxysteroid dehydrogenase, type II)		
2 <input type="checkbox"/>	DHRS3	NA	DHRS3	dehydrogenase/reductase (SDR family) member 3	9249	ENSG00000162496
3 <input type="checkbox"/>	AKR1C4	NA	AKR1C4	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	1109	ENSG00000198610

Database:molecular function activity		Name:androsterone dehydrogenase ID:GO:0047023				
C=3; O=2; E=0.02; R=118.37; rawP=9.36e-05; adjP=0.0023						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
2 <input type="checkbox"/>	AKR1C4	NA	AKR1C4	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	1109	ENSG00000198610

Database:molecular function binding		Name:carbohydrate derivative ID:GO:0097367				
C=178; O=7; E=1.00; R=6.98; rawP=6.31e-05; adjP=0.0023						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	TNFAIP6	NA	TNFAIP6	tumor necrosis factor, alpha-induced protein 6	7130	ENSG00000123610
3 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
4 <input type="checkbox"/>	SMOC2	NA	SMOC2		64094	ENSG00000112562

Database:molecular function Name:carbohydrate derivative binding ID:GO:0097367						
C=178; O=7; E=1.00; R=6.98; rawP=6.31e-05; adjP=0.0023						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				SPARC related modular calcium binding 2		
5 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
6 <input type="checkbox"/>	CCL8	NA	CCL8	chemokine (C-C motif) ligand 8	6355	ENSG00000108700
7 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085

Database:molecular function Name:oxidoreductase activity, acting on the aldehyde or oxo group of donors ID:GO:0016903						
C=40; O=4; E=0.23; R=17.76; rawP=7.29e-05; adjP=0.0023						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	ALDH1A1	NA	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	216	ENSG00000165092
2 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
3 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
4 <input type="checkbox"/>	AKR1C4	NA	AKR1C4	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	1109	ENSG00000198610

Database:molecular function Name:oxidoreductase activity ID:GO:0016491						
C=641; O=12; E=3.61; R=3.32; rawP=0.0002; adjP=0.0041						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	TXNRD1	NA	TXNRD1	thioredoxin reductase 1	7296	ENSG00000198431
2 <input type="checkbox"/>	PLOD2	NA	PLOD2		5352	ENSG00000152952

Database:molecular function		Name:oxidoreductase activity		ID:GO:0016491		
C=641; O=12; E=3.61; R=3.32; rawP=0.0002; adjP=0.0041						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2		
3 <input type="checkbox"/>	CREG1	NA	CREG1	cellular repressor of E1A- stimulated genes 1	8804	ENSG00000143162
4 <input type="checkbox"/>	CYGB	NA	CYGB	cytoglobin	114757	ENSG00000161544
5 <input type="checkbox"/>	ALDH1A1	NA	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	216	ENSG00000165092
6 <input type="checkbox"/>	AKR1C3	NA	AKR1C3	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)	8644	ENSG00000196139
7 <input type="checkbox"/>	DHRS3	NA	DHRS3	dehydrogenase/reductase (SDR family) member 3	9249	ENSG00000162496
8 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210
9 <input type="checkbox"/>	MGST1	NA	MGST1	microsomal glutathione S-transferase 1	4257	ENSG00000008394
10 <input type="checkbox"/>	CH25H	NA	CH25H	cholesterol 25- hydroxylase	9023	ENSG00000138135
11 <input type="checkbox"/>	AKR1C4	NA	AKR1C4	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)	1109	ENSG00000198610
12 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083

Database:molecular function		Name:heparin binding		ID:GO:0008201		
C=122; O=5; E=0.69; R=7.28; rawP=0.0006; adjP=0.0109						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
2 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
3 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
4 <input type="checkbox"/>	CCL8	NA	CCL8		6355	ENSG00000108700

Database:molecular function Name:heparin binding ID:GO:0008201						
C=122; O=5; E=0.69; R=7.28; rawP=0.0006; adjP=0.0109						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				chemokine (C-C motif) ligand 8		
5 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085

Database:molecular function activity Name:aldehyde dehydrogenase (NAD) ID:GO:0004029						
C=10; O=2; E=0.06; R=35.51; rawP=0.0014; adjP=0.0230						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	ALDH1A1	NA	ALDH1A1	aldehyde dehydrogenase 1 family, member A1	216	ENSG00000165092
2 <input type="checkbox"/>	ALDH3A2	NA	ALDH3A2	aldehyde dehydrogenase 3 family, member A2	224	ENSG00000072210

Database:cellular component Name:extracellular region ID:GO:0005576						
C=1879; O=31; E=11.04; R=2.81; rawP=3.89e-08; adjP=2.31e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	BDNF	NA	BDNF	brain-derived neurotrophic factor	627	ENSG00000176697
3 <input type="checkbox"/>	PSG5	NA	PSG5	pregnancy specific beta-1-glycoprotein 5	5673	ENSG00000204941
4 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
5 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
6 <input type="checkbox"/>	CREG1	NA	CREG1	cellular repressor of E1A-stimulated genes 1	8804	ENSG00000143162
7 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
8 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
9 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
10 <input type="checkbox"/>	PSG9	NA	PSG9	pregnancy specific beta-1-glycoprotein 9	5678	ENSG00000183668

Database:cellular component Name:extracellular region ID:GO:0005576						
C=1879; O=31; E=11.04; R=2.81; rawP=3.89e-08; adjP=2.31e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
11 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
12 <input type="checkbox"/>	CPA4	NA	CPA4	carboxypeptidase A4	51200	ENSG00000128510
13 <input type="checkbox"/>	PSG3	NA	PSG3	pregnancy specific beta-1-glycoprotein 3	5671	ENSG00000221826
14 <input type="checkbox"/>	ISG15	NA	ISG15	ISG15 ubiquitin-like modifier	9636	ENSG00000187608
15 <input type="checkbox"/>	PSG6	NA	PSG6	pregnancy specific beta-1-glycoprotein 6	5675	ENSG00000170848
16 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
17 <input type="checkbox"/>	CCL26	NA	CCL26	chemokine (C-C motif) ligand 26	10344	ENSG00000006606
18 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
19 <input type="checkbox"/>	PLAC9	NA	PLAC9	placenta-specific 9	219348	ENSG00000189129
20 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
21 <input type="checkbox"/>	CCL8	NA	CCL8	chemokine (C-C motif) ligand 8	6355	ENSG00000108700
22 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
23 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
24 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
25 <input type="checkbox"/>	PODN	NA	PODN	podocan	127435	ENSG00000174348
26 <input type="checkbox"/>	PROS1	NA	PROS1	protein S (alpha)	5627	ENSG00000184500
27 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
28 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196
29 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167

Database:cellular component Name:extracellular region ID:GO:0005576						
C=1879; O=31; E=11.04; R=2.81; rawP=3.89e-08; adjP=2.31e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
30 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139
31 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083

Database:cellular component Name:extracellular region part ID:GO:0044421						
C=1012; O=22; E=5.95; R=3.70; rawP=6.20e-08; adjP=2.31e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
3 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
4 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
5 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
6 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
7 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
8 <input type="checkbox"/>	ISG15	NA	ISG15	ISG15 ubiquitin-like modifier	9636	ENSG00000187608
9 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
10 <input type="checkbox"/>	CCL26	NA	CCL26	chemokine (C-C motif) ligand 26	10344	ENSG00000006606
11 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
12 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
13 <input type="checkbox"/>	CCL8	NA	CCL8	chemokine (C-C motif) ligand 8	6355	ENSG00000108700
14 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
15 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
16 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin,	5054	ENSG00000106366

Database:cellular component Name:extracellular region part ID:GO:0044421						
C=1012; O=22; E=5.95; R=3.70; rawP=6.20e-08; adjP=2.31e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				plasminogen activator inhibitor type 1), member 1		
17 <input type="checkbox"/>	PODN	NA	PODN	podocan	127435	ENSG00000174348
18 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
19 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196
20 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
21 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
22 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139

Database:cellular component Name:extracellular matrix ID:GO:0031012						
C=389; O=14; E=2.29; R=6.12; rawP=5.77e-08; adjP=2.31e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
3 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
4 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
5 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
6 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
7 <input type="checkbox"/>	CRIP2	NA	CRIP2	cysteine-rich protein 2	1397	ENSG00000182809
8 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
9 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
10 <input type="checkbox"/>	PODN	NA	PODN	podocan	127435	ENSG00000174348
11 <input type="checkbox"/>	SMOC2	NA	SMOC2		64094	ENSG00000112562

Database:cellular component Name:extracellular matrix ID:GO:0031012						
C=389; O=14; E=2.29; R=6.12; rawP=5.77e-08; adjP=2.31e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
				SPARC related modular calcium binding 2		
12 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
13 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196
14 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083

Database:cellular component Name:extracellular space ID:GO:0005615						
C=791; O=19; E=4.65; R=4.09; rawP=1.27e-07; adjP=3.56e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
3 <input type="checkbox"/>	FGF2	NA	FGF2	fibroblast growth factor 2 (basic)	2247	ENSG00000138685
4 <input type="checkbox"/>	APOD	NA	APOD	apolipoprotein D	347	ENSG00000189058
5 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
6 <input type="checkbox"/>	ISG15	NA	ISG15	ISG15 ubiquitin-like modifier	9636	ENSG00000187608
7 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
8 <input type="checkbox"/>	CCL26	NA	CCL26	chemokine (C-C motif) ligand 26	10344	ENSG00000006606
9 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
10 <input type="checkbox"/>	IL6	NA	IL6	interleukin 6 (interferon, beta 2)	3569	ENSG00000136244
11 <input type="checkbox"/>	CCL8	NA	CCL8	chemokine (C-C motif) ligand 8	6355	ENSG00000108700
12 <input type="checkbox"/>	OLFM1	NA	OLFM1	olfactomedin 1	10439	ENSG00000130558
13 <input type="checkbox"/>	SERPINE1	NA	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	5054	ENSG00000106366
14 <input type="checkbox"/>	PODN	NA	PODN	podocan	127435	ENSG00000174348

Database:cellular component Name:extracellular space ID:GO:0005615						
C=791; O=19; E=4.65; R=4.09; rawP=1.27e-07; adjP=3.56e-06						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
15 <input type="checkbox"/>	STC1	NA	STC1	stanniocalcin 1	6781	ENSG00000159167
16 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196
17 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
18 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083
19 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139

Database:cellular component Name:proteinaceous extracellular matrix ID:GO:0005578						
C=333; O=12; E=1.96; R=6.13; rawP=5.49e-07; adjP=1.23e-05						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
3 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
4 <input type="checkbox"/>	TGFBR3	NA	TGFBR3	transforming growth factor, beta receptor III	7049	ENSG00000069702
5 <input type="checkbox"/>	MGP	NA	MGP	matrix Gla protein	4256	ENSG00000111341
6 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
7 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
8 <input type="checkbox"/>	PODN	NA	PODN	podocan	127435	ENSG00000174348
9 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
10 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
11 <input type="checkbox"/>	DPT	NA	DPT	dermatopontin	1805	ENSG00000143196
12 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083

Database:cellular component Name:extracellular matrix part ID:GO:0044420						
C=166; O=7; E=0.98; R=7.18; rawP=5.44e-05; adjP=0.0010						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl

Database:cellular component Name:extracellular matrix part ID:GO:0044420						
C=166; O=7; E=0.98; R=7.18; rawP=5.44e-05; adjP=0.0010						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	LAMC3	NA	LAMC3	laminin, gamma 3	10319	ENSG00000050555
2 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
3 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
4 <input type="checkbox"/>	SMOC2	NA	SMOC2	SPARC related modular calcium binding 2	64094	ENSG00000112562
5 <input type="checkbox"/>	LAMC2	NA	LAMC2	laminin, gamma 2	3918	ENSG00000058085
6 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
7 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083

Database:cellular component Name:filopodium ID:GO:0030175						
C=49; O=4; E=0.29; R=13.89; rawP=0.0002; adjP=0.0032						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	EZR	NA	EZR	ezrin	7430	ENSG00000092820
2 <input type="checkbox"/>	PALM	NA	PALM	paralemmmin	5064	ENSG00000099864
3 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555
4 <input type="checkbox"/>	RAPH1	NA	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	65059	ENSG00000173166

Database:cellular component Name:Golgi lumen ID:GO:0005796						
C=67; O=4; E=0.39; R=10.16; rawP=0.0006; adjP=0.0084						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	FMOD	NA	FMOD	fibromodulin	2331	ENSG00000122176
3 <input type="checkbox"/>	PROS1	NA	PROS1	protein S (alpha)	5627	ENSG00000184500
4 <input type="checkbox"/>	PCSK5	NA	PCSK5	proprotein convertase subtilisin/kexin type 5	5125	ENSG00000099139

Database:cellular component Name:collagen ID:GO:0005581						
C=81; O=4; E=0.48; R=8.40; rawP=0.0013; adjP=0.0162						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	DCN	NA	DCN	decorin	1634	ENSG00000011465
2 <input type="checkbox"/>	GLDN	NA	GLDN	gliomedin	342035	ENSG00000186417
3 <input type="checkbox"/>	EMILIN2	NA	EMILIN2	elastin microfibril interfacier 2	84034	ENSG00000132205
4 <input type="checkbox"/>	LOX	NA	LOX	lysyl oxidase	4015	ENSG00000113083

Database:cellular component Name:filopodium membrane ID:GO:0031527						
C=12; O=2; E=0.07; R=28.36; rawP=0.0022; adjP=0.0246						
Index	UserID	Value	Gene Symbol	Gene Name	EntrezGene	Ensembl
1 <input type="checkbox"/>	PALM	NA	PALM	paralemmin	5064	ENSG00000099864
2 <input type="checkbox"/>	MYO10	NA	MYO10	myosin X	4651	ENSG00000145555

WebGestalt is currently developed and maintained by Jing Wang and Bing Zhang at the [Zhang Lab](#). Other people who have made significant contribution to the project include Dexter Duncan, Stefan Kirov, Zhiao Shi, and Jay Snoddy.

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