

Supplement 1: CSF proteins from included studies. For each protein, it is shown whether protein levels differed significantly for different comparisons (AD or MCI vs. controls) or correlated with levels of CSF amyloid, t-tau and p-tau. In addition, for each protein the direction of the change (i.e., increased or decreased levels) and the consistency of the protein level increases or decreases across studies is indicated.

Gene	UniProt	AD, All studies		AD, Clinical		AD, Biomarker		MCI		t-tau		p-tau		amyloid	
		In analysis	Consistent?	Direction	No. of studies	In analysis	Consistent?	Direction	No. of studies	In analysis	Consistent?	Direction	No. of studies	In analysis	Consistent?
TTR	P02766	✓	×	↕	9	✓	×	↕	7	✓	✓	↑	2	✓	✓
					[2 5 17 18 21 22 26 27 28]				[2 5 17 22 26 27 28]						
VGF	O15240	✓	×	↕	8	✓	×	↕	3	✓	✓	↓	5	×	×
					[2 6 7 11 14 23 25 29]				[2 7 25]						
APOE	P02649	✓	×	↕	8	✓	✓	↓	3	✓	×	↕	5	✓	×
					[2 8 11 18 21 22 24 27]				[2 22 27]						
CHGA	P10645	✓	×	↕	7	✓	✓	↓	3	✓	×	↕	4	✓	×
					[2 7 10 11 23 24 25]				[2 7 25]						
SERPINA1	P01009	✓	×	↕	7	✓	×	↕	6	✓	×	↑	1	×	×
					[3 5 15 18 20 26 28]				[3 5 15 20 26 28]						
CST3	P01034	✓	×	↕	6	✓	×	↕	3	✓	×	↕	3	✓	×
					[2 3 7 8 21 23]				[2 3 7]						
CHI3L1	P36222	✓	✓	↑	6	✓	✓	↑	2	✓	✓	↑	4	×	×
					[2 6 8 12 17 21]				[2 17]						
CLU	P10909	✓	×	↕	6	✓	×	↕	3	✓	✓	↑	3	×	×
					[2 11 18 20 21 28]				[2 20 28]						
SPP1	P10451	✓	×	↕	6	✓	×	↕	3	✓	×	↑	1	×	×
					[3 7 8 20 21 29]				[3 7 20]						
NPTXR	O95502	✓	×	↕	6	✓	×	↕	3	✓	×	↑	1	×	×
					[5 14 18 20 24 28]				[5 20 28]						
APOD	P05090	✓	×	↕	5	✓	✓	↑	2	✓	×	↕	3	×	×
					[3 10 19 20 24]				[3 20]						
PCSK1N	Q9UHG2	✓	×	↕	5	✓	✓	↓	2	✓	×	↕	3	×	×
					[5 11 18 24 25]				[5 25]						
NPTX1	Q15818	✓	×	↕	5	✓	×	↕	3	✓	✓	↓	2	×	×
					[15 20 23 24 27]				[15 20 27]						
FABP3	P05413	✓	✓	↑	4	✓	✓	↑	3	✓	×	↑	1	✓	×
					[3 5 12 20]				[3 5 20]						
SCG2	P13521	✓	×	↕	4	✓	×	↕	2	✓	✓	↓	2	×	×
					[2 23 25 29]				[2 25]						
PSAP	P07602	✓	×	↕	4	✓	×	↕	3	✓	×	↑	1	×	×
					[2 7 15 21]				[2 7 15]						

AGT	P01019	✓ × ⇕ 4	[2 15 24 28]	✓ ✓ ↑ 3	[2 15 28]	✓ × ↓ 1	[24]	× - -	×	-	×	-	×	-	
CHGB	P05060	✓ × ⇕ 4	[2 11 24 25]	✓ ✓ ↓ 2	[2 25]	✓ × ⇕ 2	[11 24]	× - -	×	-	×	-	×	-	
GSN	P06396	✓ × ⇕ 4	[2 20 28 29]	✓ × ⇕ 3	[2 20 28]	✓ × ↑ 1	[29]	× - -	×	-	×	-	×	-	
CNDP1	Q96KN2	✓ × ⇕ 4	[2 6 15 21]	✓ × ⇕ 2	[2 15]	✓ × ⇕ 2	[6 21]	× - -	×	-	✓ × ↑ 1	[8]	×	-	
SORT1	Q99523	✓ × ⇕ 4	[3 20 24 25]	✓ × ⇕ 3	[3 20 25]	✓ × ↑ 1	[24]	× - -	✓ ✓ ↑ 3	[3 4 10]	✓ × ↑ 1	[3]	✓ × ↑ 1	[3]	
B2M	P61769	✓ × ⇕ 4	[7 22 26 29]	✓ × ⇕ 3	[7 22 26]	✓ × ↑ 1	[29]	✓ × ↑ 1	[9]	✓ × ⇕ 2	[4 10]	✓ × ↓ 1	[4]	×	-
C3	P01024	✓ ✓ ↑ 4	[7 10 17 18]	✓ ✓ ↑ 2	[7 17]	✓ ✓ ↑ 2	[10 18]	✓ ✓ ↑ 2	[5 9]	×	-	×	-	×	-
ITM2B	Q9Y287	✓ × ⇕ 4	[7 20 24 25]	✓ × ⇕ 3	[7 20 25]	✓ × ↑ 1	[24]	× - -	×	-	×	-	×	-	
SOD1	P00441	✓ × ⇕ 4	[20 24 25 28]	✓ × ⇕ 3	[20 25 28]	✓ × ↓ 1	[24]	× - -	✓ ✓ ↑ 2	[10 12]	✓ × ↑ 1	[12]	×	-	
SCG3	Q8WXD2	✓ × ⇕ 3	[2 24 25]	✓ × ⇕ 2	[2 25]	✓ × ↓ 1	[24]	× - -	×	-	×	-	×	-	
A2M	P01023	✓ ✓ ↑ 3	[2 10 15]	✓ ✓ ↑ 2	[2 15]	✓ × ↑ 1	[10]	× - -	×	-	×	-	×	-	
APOH	P02749	✓ ✓ ↑ 3	[2 21 24]	✓ × ↑ 1	[2]	✓ ✓ ↑ 2	[21 24]	× - -	×	-	×	-	×	-	
APOA1	P02647	✓ × ⇕ 3	[2 6 22]	✓ × ⇕ 2	[2 22]	✓ × ↑ 1	[6]	× - -	×	-	×	-	×	-	
NRCAM	Q92823	✓ × ⇕ 3	[2 10 27]	✓ ✓ ↓ 2	[2 27]	✓ × ↑ 1	[10]	✓ × ↓ 1	[27]	✓ × ↑ 1	[17]	✓ × ↑ 1	[17]	×	-
TNFRSF-10C	O14798	✓ × ⇕ 3	[3 10 29]	✓ × ↑ 1	[3]	✓ × ⇕ 2	[10 29]	✓ × ↓ 1	[13]	✓ ✓ ↑ 2	[3 10]	✓ ✓ ↑ 2	[3 4]	×	-
IGFBP2	P18065	✓ × ⇕ 3	[3 15 21]	✓ × ⇕ 2	[3 15]	✓ × ↑ 1	[21]	× - -	✓ × ↑ 1	[3]	✓ × ⇕ 2	[3 4]	×	-	
MCAM	P43121	✓ × ⇕ 3	[5 20 27]	✓ × ⇕ 3	[5 20 27]	×	-	✓ × ↓ 1	[27]	×	-	×	-	×	-
APP	P05067	✓ × ⇕ 3	[7 11 25]	✓ × ⇕ 2	[7 25]	✓ × ↑ 1	[11]	× - -	×	-	×	-	×	-	
HP	P00738	✓ ✓ ↑ 3	[15 20 24]	✓ ✓ ↑ 2	[15 20]	✓ × ↑ 1	[24]	× - -	×	-	×	-	×	-	
DAG1	Q14118	✓ × ⇕ 3	[15 28 29]	✓ × ⇕ 2	[15 28]	✓ × ↑ 1	[29]	× - -	×	-	×	-	×	-	
CLEC3B	P05452	✓ × ⇕ 3	[15 24 28]	✓ × ⇕ 2	[15 28]	✓ × ↓ 1	[24]	× - -	×	-	×	-	×	-	
CFD	P00746	✓ × ⇕ 3	[15 29 20]	✓ × ⇕ 2	[15 20]	✓ × ↑ 1	[29]	× - -	×	-	×	-	×	-	
GC	P02774	✓ × ⇕ 3	[15 21 18]	✓ × ↓ 1	[15]	✓ ✓ ↑ 2	[18 21]	× - -	×	-	×	-	×	-	
CHL1	O00533	✓ ✓ ↓ 3	[15 27 20]	✓ ✓ ↓ 3	[15 27 20]	×	-	✓ × ↓ 1	[27]	×	-	×	-	×	-
ALB	P02768	✓ × ⇕ 3	[18 26 25]	✓ ✓ ↓ 2	[25 26]	✓ × ↑ 1	[18]	× - -	×	-	×	-	×	-	

NFASC	O94856	✓	✓	↓	3	[20 24]	23	✓	×	↓	1	[20]	✓	✓	↓	2	[23 24]	×	-	-	×	-	×	-	×	-									
NRXN1	P58400# Q9ULB1	✓	✓	↓	3	[23 25]	24	✓	×	↓	1	[25]	✓	✓	↓	2	[23 24]	×	-	-	×	-	×	-	×	-									
MT3	P25713	✓	×	⇅	3	[24 29]	25	✓	×	↓	1	[25]	✓	×	⇅	2	[24 29]	×	-	-	×	-	×	-	×	-									
VEGFA	P15692	✓	×	⇅	2	[3 10]		✓	×	↓	1	[3]	✓	×	↑	1	[10]	×	-	-	✓	✓	↑	2	[3 4]	✓	✓	↑	2	[3 4]	✓	×	⇅	2	[1 3]
SERPINA3	P01011	✓	×	⇅	2	[2 7]		✓	×	⇅	2	[2 7]	×		-			×	-	-	×	-	×	-	×	-									
CUTA	O60888	✓	✓	↓	2	[2 24]		✓	×	↓	1	[2]	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-									
CP	P00450	✓	×	⇅	2	[2 28]		✓	×	⇅	2	[2 28]	×		-			×	-	-	×	-	×	-	×	-									
CLSTN1	O94985	✓	✓	↓	2	[2 25]		✓	✓	↓	2	[2 25]	×		-			×	-	-	×	-	×	-	×	-									
PTGDS	P41222	✓	✓	↓	2	[2 25]		✓	✓	↓	2	[2 25]	×		-			×	-	-	×	-	×	-	×	-									
APOC2	P02655	✓	✓	↓	2	[2 29]		✓	×	↓	1	[2]	✓	×	↓	1	[29]	×	-	-	×	-	×	-	×	-									
CPE	P16870	✓	×	⇅	2	[2 21]		✓	×	↓	1	[2]	✓	×	↑	1	[21]	×	-	-	×	-	×	-	×	-									
GOT1	P17174	✓	✓	↓	2	[2 20]		✓	✓	↓	2	[2 20]	×		-			×	-	-	✓	×	↑	1	[12]	✓	×	↑	1	[12]	×	-			
CCL26	Q9Y258	✓	✓	↑	2	[3 10]		✓	×	↑	1	[3]	✓	×	↑	1	[10]	×	-	-	✓	✓	↑	2	[3 10]	✓	×	↑	1	[3]	×	-			
IL7	P13232	✓	×	⇅	2	[3 10]		✓	×	↓	1	[3]	✓	×	↑	1	[10]	×	-	-	×	-	×	-		✓	×	↑	1	[3]					
INS	P01308	✓	×	⇅	2	[3 15]		✓	×	⇅	2	[3 15]	×		-			×	-	-	✓	×	↑	1	[3]	✓	×	↑	1	[3]	✓	×	↑	1	[3]
NPTX2	P47972	✓	✓	↓	2	[5 29]		✓	×	↓	1	[5]	✓	×	↓	1	[29]	×	-	-	×	-	×	-		✓	×	↑	1	[12]					
AFM	P43652	✓	✓	↑	2	[6 15]		✓	×	↑	1	[15]	✓	×	↑	1	[6]	×	-	-	×	-	×	-		×	-								
SPARC	P09486	✓	×	⇅	2	[6 15]		✓	×	↓	1	[15]	✓	×	↑	1	[6]	✓	×	↑	1	[6]	×	-		×	-								
MDH1	P40925	✓	✓	↑	2	[8 21]		×		-			✓	✓	↑	2	[8 21]	×	-	-	✓	✓	↑	2	[8 12]	✓	✓	↑	2	[8 12]	×	-			
TIMP1	P01033	✓	×	⇅	2	[15 21]		✓	×	↓	1	[15]	✓	×	↑	1	[21]	×	-	-	✓	×	↑	1	[10]	×	-	×	-						
APLP1	P51693	✓	×	⇅	2	[11 25]		✓	×	↓	1	[25]	✓	×	↑	1	[11]	×	-	-	×	-	×	-		×	-								
SCG5	P05408	✓	✓	↑	2	[11 15]		✓	×	↑	1	[15]	✓	×	↑	1	[11]	×	-	-	×	-	×	-		×	-								
YWHAZ	P63104	✓	✓	↑	2	[12 20]		✓	×	↑	1	[20]	✓	×	↑	1	[12]	×	-	-	✓	×	↑	1	[12]	✓	×	↑	1	[12]	×	-			
SMOC1	Q9H4F8	✓	✓	↑	2	[12 20]		✓	×	↑	1	[20]	✓	×	↑	1	[12]	×	-	-	✓	×	↑	1	[12]	✓	×	↑	1	[12]	×	-			
SPON1	Q9HCB6	✓	✓	↑	2	[15 24]		✓	×	↑	1	[15]	✓	×	↑	1	[24]	×	-	-	✓	×	↑	1	[12]	✓	×	↑	1	[12]	×	-			

PEBP1	P30086	✓ × ⇅ 2 [20 24]	✓ × ↑ 1 [20]	✓ × ↓ 1 [24]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
IGHG1	P01857	✓ ✓ ↑ 2 [15 18]	✓ × ↑ 1 [15]	✓ × ↑ 1 [18]	× - -	× -	× -	× -
HRG	P04196	✓ ✓ ↑ 2 [15 27]	✓ ✓ ↑ 2 [15 27]	× -	× - -	× -	× -	× -
APOA2	P02652	✓ ✓ ↑ 2 [15 24]	✓ × ↑ 1 [15]	✓ × ↑ 1 [24]	× - -	× -	× -	× -
NPDC1	Q9NQX5	✓ × ⇅ 2 [15 24]	✓ × ↑ 1 [15]	✓ × ↓ 1 [24]	× - -	× -	× -	× -
CXCL16	Q9H2A7	✓ × ⇅ 2 [15 29]	✓ × ↓ 1 [15]	✓ × ↑ 1 [29]	× - -	× -	× -	× -
GM2A	P17900	✓ × ⇅ 2 [15 21]	✓ × ↓ 1 [15]	✓ × ↑ 1 [21]	× - -	× -	× -	× -
RNASE6	Q93091	✓ × ⇅ 2 [15 29]	✓ × ↓ 1 [15]	✓ × ↑ 1 [29]	× - -	× -	× -	× -
C7	P10643	✓ × ⇅ 2 [15 20]	✓ × ⇅ 2 [15 20]	× -	× - -	× -	× -	× -
FGB	P02675	✓ ✓ ↑ 2 [18 24]	× -	✓ ✓ ↑ 2 [18 24]	× - -	× -	× -	× -
RBP1	P09455	✓ ✓ ↑ 2 [18 22]	✓ × ↑ 1 [22]	✓ × ↑ 1 [18]	× - -	× -	× -	× -
LTBP2	Q14767	✓ ✓ ↑ 2 [20 24]	✓ × ↑ 1 [20]	✓ × ↑ 1 [24]	× - -	× -	× -	× -
A1BG	P04217	✓ × ⇅ 2 [20 26]	✓ × ⇅ 2 [20 26]	× -	× - -	× -	× -	× -
COL1A2	P08123	✓ ✓ ↑ 2 [20 24]	✓ × ↑ 1 [20]	✓ × ↑ 1 [24]	× - -	× -	× -	× -
DDAH1	O94760	✓ ✓ ↑ 2 [20 29]	✓ × ↑ 1 [20]	✓ × ↑ 1 [29]	× - -	× -	× -	× -
FGFR1	P11362	✓ × ⇅ 2 [20 29]	✓ × ↑ 1 [20]	✓ × ↓ 1 [29]	× - -	× -	× -	× -
IGFBP5	P24593	✓ ✓ ↑ 2 [20 24]	✓ × ↑ 1 [20]	✓ × ↑ 1 [24]	× - -	× -	× -	× -
MGAT1	P26572	✓ × ⇅ 2 [20 24]	✓ × ↑ 1 [20]	✓ × ↓ 1 [24]	× - -	× -	× -	× -
MGP	P08493	✓ ✓ ↑ 2 [20 24]	✓ × ↑ 1 [20]	✓ × ↑ 1 [24]	× - -	× -	× -	× -
TREM2	Q9NZC2	✓ ✓ ↑ 2 [20 21]	✓ × ↑ 1 [20]	✓ × ↑ 1 [21]	× - -	× -	× -	× -
ATP6AP1	Q15904	✓ ✓ ↓ 2 [20 24]	✓ × ↓ 1 [20]	✓ × ↓ 1 [24]	× - -	× -	× -	× -
PTPRN	Q16849	✓ ✓ ↓ 2 [20 24]	✓ × ↓ 1 [20]	✓ × ↓ 1 [24]	× - -	× -	× -	× -
IGF2	P01344	✓ ✓ ↑ 2 [21 24]	× -	✓ ✓ ↑ 2 [21 24]	× - -	× -	× -	× -
TF	P02787	✓ × ⇅ 2 [21 26]	✓ × ↓ 1 [26]	✓ × ↑ 1 [21]	× - -	× -	× -	× -
AZGP1	P25311	✓ ✓ ↑ 2 [22 28]	✓ ✓ ↑ 2 [22 28]	× -	× - -	× -	× -	× -

NRXN3	Q9HDB5# Q14257	✓ × ⇅ 2 [23 29]	× -	✓ × ⇅ 2 [23 29]	× - -	× -	× -	× -
LYNX1	P0DP58	✓ ✓ ↓ 2 [24 29]	× -	✓ ✓ ↓ 2 [24 29]	× - -	× -	× -	× -
TAC1	P20366	✓ ✓ ↓ 2 [24 29]	× -	✓ ✓ ↓ 2 [24 29]	× - -	× -	× -	× -
C11orf87	Q6NUJ2	✓ ✓ ↓ 2 [24 29]	× -	✓ ✓ ↓ 2 [24 29]	× - -	× -	× -	× -
AHSG	P02765	✓ ✓ ↓ 2 [25 26]	✓ ✓ ↓ 2 [25 26]	× -	✓ × ↓ 1 [27]	× -	× -	× -
NCAM1	P13591	✓ ✓ ↑ 2 [28 29]	✓ × ↑ 1 [28]	✓ × ↑ 1 [29]	× - -	× -	× -	× -
RETN	Q9HD89	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	✓ × ↑ 1 [1]
PRL	P01236	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [1]
HGF	P14210	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ ✓ ↑ 3 [3 4 10]	✓ ✓ ↑ 2 [3 4]	✓ × ↑ 1 [1]
CALM3	P0DP25	✓ × ↑ 1 [2]	✓ × ↑ 1 [2]	× -	× - -	× -	× -	× -
CDH2	P19022	✓ × ↑ 1 [2]	✓ × ↑ 1 [2]	× -	× - -	× -	× -	× -
KNG1	P01042	✓ × ↑ 1 [2]	✓ × ↑ 1 [2]	× -	× - -	× -	× -	× -
VTN	P04004	✓ × ↑ 1 [2]	✓ × ↑ 1 [2]	× -	× - -	× -	× -	× -
C4B	P0C0L5	✓ × ↑ 1 [2]	✓ × ↑ 1 [2]	× -	× - -	× -	× -	× -
ANXA1	P04083	✓ × ↓ 1 [2]	✓ × ↓ 1 [2]	× -	× - -	× -	× -	× -
S100A1	P23297	✓ × ↓ 1 [2]	✓ × ↓ 1 [2]	× -	× - -	× -	× -	× -
APOC3	P02656	✓ × ↓ 1 [2]	✓ × ↓ 1 [2]	× -	× - -	× -	× -	× -
B3GNT6	Q6ZMB0	✓ × ↓ 1 [2]	✓ × ↓ 1 [2]	× -	× - -	× -	× -	× -
MAN1A1	P33908	✓ × ↓ 1 [2]	✓ × ↓ 1 [2]	× -	× - -	× -	× -	× -
CADM3	Q8N126	✓ × ↓ 1 [2]	✓ × ↓ 1 [2]	× -	× - -	× -	× -	× -
CA4	P22748	✓ × ↓ 1 [2]	✓ × ↓ 1 [2]	× -	× - -	× -	× -	× -
CXCL1	P09341	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [10]	× -	× -
MMP10	P09238	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	✓ × ↓ 1 [3]
NPPB	P16860	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -
SERPINE1	P05121	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ ✓ ↑ 2 [3 10]	✓ × ↑ 1 [3]	× -

PPY	P01298	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ ✓ ↑ 2 [3 10]	✓ × ↑ 1 [3]	× -
FAS	P25445	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ ✓ ↑ 2 [3 10]	✓ × ↑ 1 [3]	× -
MIF	P14174	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ ✓ ↑ 2 [3 10]	✓ × ↑ 1 [3]	× -
CCL8	P80075	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	× -	× -	× -
FGA	P02671	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -
CCL25	O15444	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -
HAVCR1	Q96D42	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↓ 1 [3]	✓ × ↓ 1 [3]	× -
HBEGF	Q99075	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ ✓ ↑ 2 [3 4]	✓ ✓ ↑ 2 [3 4]	× -
FASLG	P48023	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -
IL10	P22301	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	× -	× -	× -
TNFRSF1BP20333		✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ⇅ 3 [3 4 10]	✓ × ⇅ 2 [3 4]	× -
CCL16	O15467	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [10]	× -	× -
CXCL10	P02778	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -
CXCL9	Q07325	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -
THBD	P07204	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]
THPO	P40225	✓ × ↓ 1 [3]	✓ × ↓ 1 [3]	× -	× - -	× -	× -	✓ × ↑ 1 [3]
CKM	P06732	✓ × ↓ 1 [3]	✓ × ↓ 1 [3]	× -	× - -	× -	× -	× -
IL25	Q9H293	✓ × ↓ 1 [3]	✓ × ↓ 1 [3]	× -	× - -	× -	× -	× -
CALB1	P05937	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	× -
CSF1	P09603	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [4]	✓ × ↑ 1 [4]	× -
S100B	P04271	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	× - -	✓ × ↑ 1 [4]	✓ × ↑ 1 [4]	× -
OLR1	P78380	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	✓ × ↓ 1 [4]	✓ × ↓ 1 [4]	× -
C1QB	P02746	✓ × ↓ 1 [5]	✓ × ↓ 1 [5]	× -	× - -	× -	× -	× -
RNASE1	P07998	✓ × ↑ 1 [7]	✓ × ↑ 1 [7]	× -	× - -	× -	× -	× -
APOC1	P02654	✓ × ↓ 1 [7]	✓ × ↓ 1 [7]	× -	× - -	× -	× -	× -

VSTM2A	Q8TAG5	✓ × ⇅ 1 [29]	× -	✓ × ⇅ 1 [29]	× - -	✓ ✓ ↑ 2 [8 12]	✓ ✓ ↑ 2 [8 12]	× -
UBC	P0CG48	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	✓ × ↑ 1 [9]	× -	× -	× -
C4A	P0C0L4	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	✓ × ↑ 1 [9]	× -	× -	× -
PDGFA	P04085	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	× -	× -	× -
ADIPOQ	Q15848	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	× -	× -	× -
CALCA	P01258	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	× -	× -	× -
IL1A	P01583	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	× -	× -	× -
IL23A	Q9NPF7	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	× -	× -	× -
CCL1	P22362	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	✓ × ↑ 1 [10]	× -	× -
MB	P02144	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	× -	× -	× -
MPO	P05164	✓ × ↑ 1 [10]	× -	✓ × ↑ 1 [10]	× - -	× -	× -	× -
COL1A1	P02452	✓ × ↑ 1 [11]	× -	✓ × ↑ 1 [11]	× - -	× -	× -	× -
FXYD1	O00168	✓ × ↑ 1 [11]	× -	✓ × ↑ 1 [11]	× - -	× -	× -	× -
APLP2	Q06481	✓ × ↓ 1 [11]	× -	✓ × ↓ 1 [11]	× - -	× -	× -	× -
BCAN	Q96GW7	✓ × ↓ 1 [11]	× -	✓ × ↓ 1 [11]	× - -	× -	× -	× -
CCK	P06307	✓ × ↓ 1 [11]	× -	✓ × ↓ 1 [11]	× - -	× -	× -	× -
SZT2	Q5T011	✓ × ↑ 1 [12]	× -	✓ × ↑ 1 [12]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
GAP43	P17677	✓ × ↑ 1 [12]	× -	✓ × ↑ 1 [12]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
BASP1	P80723	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
PKM	P14618	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
NEDD8	Q15843	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
ALDOA	P04075	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
NRGN	Q92686	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	✓ × ↑ 1 [12]	× -	× -
FAIM2	Q9BWQ8	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
YWHAB	P31946	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -

EPHB6	O15197	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
PGAM1	P18669	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	× -	× -
TMSB4X	P62328	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
SUSD5	O60279	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
CDH13	P55290	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
LDHB	P07195	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	× -	× -
SH3BGRL	O75368	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	✓ × ↑ 1 [12]	× -	× -
LY6H	O94772	✓ × ↓ 1 [29]	× -	✓ × ↓ 1 [29]	× - -	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]	× -
CADM2	Q8N3J6	✓ × ↓ 1 [27]	✓ × ↓ 1 [27]	× -	✓ × ↓ 1 [27]	✓ × ↑ 1 [12]	× -	× -
ENPP2	Q13822	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	× - -	✓ × ↓ 1 [12]	× -	× -
ADAM10	O14672	✓ × ↑ 1 [24]	× -	✓ × ↑ 1 [24]	× - -	× -	✓ × ↑ 1 [12]	× -
CYTL1	Q9NRR1	✓ × ↑ 1 [24]	× -	✓ × ↑ 1 [24]	× - -	× -	✓ × ↑ 1 [12]	× -
SST	P61278	✓ × ↓ 1 [29]	× -	✓ × ↓ 1 [29]	× - -	× -	× -	✓ × ↑ 1 [12]
PCSK2	P16519	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	✓ × ↑ 1 [12]
CADPS2	Q86UW7	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
C1R	P00736	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
CTSB	P07858	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
F7	P08709	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
MEGF10	Q96KG7	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
TUBA3C	P0DPH7	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
HSPD1	P10809	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
SELENBP1	Q13228	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
CD14	P08571	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
IGKC	P01834	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
PROS1	P07225	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -



CFB	P00751	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
HNRNPU	Q00839	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
HPX	P02790	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
SERPINC1	P01008	✓ × ↑ 1 [15]	✓ × ↑ 1 [15]	× -	× - -	× -	× -	× -
OGN	P20774	✓ × ⇕ 1 [15]	✓ × ⇕ 1 [15]	× -	× - -	× -	× -	× -
IGFBP6	P24592	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
LGALS3BP	Q08380	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
IGHA22		✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
EEF1G	P26641	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
RCC1L	Q96I51	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
EPRS	P07814	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
ILKAP	Q9H0C8	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
ADAM22	Q9P0K1	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
HSPA6	P17066	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
HSPA1B	P0DMV9	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
HSPA1A	P0DMV8	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
B3GNT2	Q9NY97	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
B3GNT3	Q9Y2A9	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
PRNP	P04156	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
IGSF8	Q969P0	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
CANX	P27824	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
DCD	P81605	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
HNRNPDL	O14979	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
PRKDC	P78527	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
DHX9	Q08211	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -

LY75	O60449	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
DLGAP2	Q9P1A6	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
CEMP2	Q9UHN6	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
ATAD2	Q6PL18	✓ × ↓ 1 [15]	✓ × ↓ 1 [15]	× -	× - -	× -	× -	× -
FGG	P02679	✓ × ↑ 1 [16]	✓ × ↑ 1 [16]	× -	✓ × ↑ 1 [16]	× -	× -	× -
CNTN1	Q12860	✓ × ↑ 1 [18]	× -	✓ × ↑ 1 [18]	✓ × ↓ 1 [27]	× -	× -	× -
PLG	P00747	✓ × ↑ 1 [18]	× -	✓ × ↑ 1 [18]	× - -	× -	× -	× -
POLG	P54098	✓ × ↓ 1 [19]	× -	✓ × ↓ 1 [19]	× - -	× -	× -	× -
MGMT	P16455	✓ × ↓ 1 [19]	× -	✓ × ↓ 1 [19]	× - -	× -	× -	× -
PRKN	O60260	✓ × ↓ 1 [19]	× -	✓ × ↓ 1 [19]	× - -	× -	× -	× -
PAWR	Q96IZ0	✓ × ↓ 1 [19]	× -	✓ × ↓ 1 [19]	× - -	× -	× -	× -
GZMB	P10144	✓ × ↓ 1 [19]	× -	✓ × ↓ 1 [19]	× - -	× -	× -	× -
CDK5	Q00535	✓ × ↓ 1 [19]	× -	✓ × ↓ 1 [19]	× - -	× -	× -	× -
COMP	P49747	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
CD44	P16070	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
COL18A1	P39060	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
CRISPLD1	Q9H336	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
MSN	P26038	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
PFN1	P07737	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
SDC2	P34741	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
VCAN	P13611	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
IGFBP3	P17936	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
PPIA	P62937	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
TAGLN	Q01995	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -
CBR1	P16152	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -	× -

PARK7	Q99497	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
HEXA	P06865	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
ADM	P35318	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
FCGR3A	P08637	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
BMP1	P13497	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
CALM2	P0DP24	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
F9	P00740	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
F10	P00742	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
CFL1	P23528	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
FCGBP	Q9Y6R7	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
LDHA	P00338	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
LTBP1	Q14766	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
MLEC	Q14165	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
YWHAE	P62258	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
PI16	Q6UXB8	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
PGK1	P00558	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
SUMO4	Q6EEV6	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
SDF4	Q9BRK5	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
SNED1	Q8TER0	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
VNN1	O95497	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
VCL	P18206	✓ × ↑ 1 [20]	✓ × ↑ 1 [20]	× -	× - -	× -	× -
CDH8	P55286	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
GANAB	Q14697	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
RELN	P78509	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
SOD3	P08294	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -

SCN3B	Q9NY72	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
CDH10	Q9Y6N8	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
CHST15	Q7LFX5	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
C1QC	P02747	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
CNTN3	Q9P232	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
FAT2	Q9NYQ8	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
FSTL4	Q6MZW2	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
FSTL5	Q8N475	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
GPR158	Q5T848	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
GFRA1	P56159	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
HAPLN4	Q86UW8	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
NELL2	Q99435	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
NUCB2	P80303	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
PODXL2	Q9NZ53	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
SERPING1	P05155	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
TMEM-132A	Q24JP5	✓ × ↓ 1 [20]	✓ × ↓ 1 [20]	× -	× - -	× -	× -
SAA4	P35542	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	× - -	× -	× -
HCRT	O43612	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	× - -	× -	× -
UCHL1	P09936	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	× - -	× -	× -
LAMP1	P11279	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	× - -	× -	× -
LSAMP	Q13449	✓ × ↑ 1 [21]	× -	✓ × ↑ 1 [21]	× - -	× -	× -
APOA4	P06727	✓ × ↓ 1 [22]	✓ × ↓ 1 [22]	× -	× - -	× -	× -
RCN2	Q14257	✓ × ↑ 1 [24]	× -	✓ × ↑ 1 [24]	× - -	× -	× -
TBC1D10A	Q9BXI6	✓ × ↑ 1 [24]	× -	✓ × ↑ 1 [24]	× - -	× -	× -
NBL1	P41271	✓ × ↑ 1 [24]	× -	✓ × ↑ 1 [24]	× - -	× -	× -

SMARCE1	Q969G3	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
ORM1	P02763	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
GOLM1	Q8NBJ4	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
XPO5	Q9HAV4	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
HERC4	Q5GLZ8	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
KLK6	Q92876	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
TCERG1	O14776	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
COCH	O43405	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
AMBP	P02760	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
HLA-B	P01889# P03989 P10319 P18463-65 P30460-62 P30464 P30466 P30685 P30475 P30479-81 P30483-88 P30490-93 P30495 P30498 Q04826 Q29718 Q29836 Q29940 Q31610 Q31612 Q95365	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
HLA-E	P13747	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
IGHV1-69	P01742	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
ITIH1	P19827	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
OGT	O15294	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-
CACNG6	Q9BXT2	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	×	-	×	-	×	-

ACTA2	P62736	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
STAG1	Q8WVM7	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
PIGR	P01833	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
SAA1	P0DJ18	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
ASAP2	O43150	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
TICAM2	Q86XR7	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
HSPE1	P61604	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
TMPRSS13	Q9BYE2	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
ZKSCAN5	Q9Y2L8	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
ZNF627	Q7L945	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
ZYG11B	Q9C0D3	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
TENM3	Q9P273	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
PSG8	Q9UQ74	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
ODF2L	Q9ULJ1	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
KARCA1	Q8NEP7	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
KLHDC9	Q8NEP7	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
OPA1	O60313	✓	×	↑	1	[24]	×	-	✓	×	↑	1	[24]	×	-	-	×	-	×	-	×	-
BDNF	P23560	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-
CGREF1	Q99674	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-
PLXDC2	Q6UX71	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-
LFNG	Q8NES3	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-
EFCAB14	O75071	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-
CAMK2B	Q13554	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-
PRKCSH	P14314	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-
GOLGB1	Q14789	✓	×	↓	1	[24]	×	-	✓	×	↓	1	[24]	×	-	-	×	-	×	-	×	-

ENO2	P09104	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
LCAT	P04180	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
C2	P06681	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
UACA	Q9BZF9	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
SORCS3	Q9UPU3	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
BMP15	O95972	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
S1PR1	P21453	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
IL17RC	Q8NAC3	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
IRAK2	O43187	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
KCNQ3	O43525	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
NALCN	Q8IZF0	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
TMC5	Q6UXY8	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
TRMT2A	Q8IZ69	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
GALNT16	Q8N428	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
CYP1A1	P04798	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
POLR1A	O95602	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
INSR	P06213	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
SRCAP	Q6ZRS2	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
INHBA	P08476	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
ADAM-TS16	Q8TE57	✓ × ↓ 1 [24]	× -	✓ × ↓ 1 [24]	× - -	× -	× -	× -
IGHA1	P01876	✓ × ↑ 1 [25]	✓ × ↑ 1 [25]	× -	× - -	× -	× -	× -
TIMP2	P16035	✓ × ↑ 1 [25]	✓ × ↑ 1 [25]	× -	× - -	× -	× -	× -
HAPLN1	P10915	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
ITM2C	Q9NQX7	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
NMS	Q5H8A3	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -

NSG1	P42857	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
PNOC	Q13519	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
PENK	P01210	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
SLC24A2	Q9UI40	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
TAC3	Q9UHF0	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
SPOCK1	Q08629	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
MSLN	Q13421	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
B4GAT1	O43505	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
NTM	Q9P121	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
C12orf49	Q9H741	✓ × ↓ 1 [25]	✓ × ↓ 1 [25]	× -	× - -	× -	× -	× -
LRG1	P02750	✓ × ↑ 1 [27]	✓ × ↑ 1 [27]	× -	× - -	× -	× -	× -
NEGR1	Q7Z3B1	✓ × ↓ 1 [27]	✓ × ↓ 1 [27]	× -	✓ × ↓ 1 [27]	× -	× -	× -
SERPINF1	P36955	✓ × ↑ 1 [28]	✓ × ↑ 1 [28]	× -	× - -	× -	× -	× -
ACTB	P60709	✓ × ↑ 1 [28]	✓ × ↑ 1 [28]	× -	× - -	× -	× -	× -
HDHD2	Q9H0R4	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
PTK7	Q13308	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
PBXIP1	Q96AQ6	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
C1QA	P02745	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
ST8SIA4	Q92187	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
THOP1	P52888	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
WARS	P23381	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
MFAP5	Q13361	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
TXNRD2	Q9NNW7	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
ISLR	O14498	✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -
TNFSF12- TNFSF13		✓ × ↑ 1 [29]	× -	✓ × ↑ 1 [29]	× - -	× -	× -	× -



PLAC9	Q5JTB6	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
SEZ6L	Q9BYH1	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
PDGFRL	Q15198	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
MERTK	Q12866	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
ELN	P15502	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
YWHAG	P61981	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
NEFL	P07196	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
CECR1	Q9NZK5	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
ATF6	P18850	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
CDH12	P55289	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
CNTFR	P26992	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
MAP2	P11137	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
CCL14	Q16627	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
SLITRK3	O94933	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
ITGAM	P11215	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
PRSS23	O95084	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
CDH3	P22223	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
PRAP1	Q96NZ9	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
PKDCC	Q504Y2	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
CREG1	O75629	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
HACD3	Q9P035	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
RTTN	Q86VV8	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
ARG1	P05089	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
PAM	P19021	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
CD74	P04233	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-

SERPINB3	P29508	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
AGRN	O00468	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
NRXN2	P58401# Q9P2S2	✓	×	↕	1	[29]	×	-	✓	×	↕	1	[29]	×	-	×	-	×	-	×	-
GFAP	P14136	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
SIRPB1	O00241# Q5TFQ8	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
C1QTNF3	Q9BXJ4	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
SEMA4D	Q92854	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
GNB1	P62873	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
SECTM1	Q8WVN6	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
GKN1	Q9NS71	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
ST6GAL- NAC5	Q9BVH7	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
LCE3D	Q9BYE3	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
S100A7	P31151	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
B3GAT2	Q9NPZ5	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
SYNJ1	O43426	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
COL2A1	P02458	✓	×	↑	1	[29]	×	-	✓	×	↑	1	[29]	×	-	×	-	×	-	×	-
DEFA3	P59666	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
HRNR	Q86YZ3	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
NDRG1	Q92597	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
DEFA1	P59665	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
PRSS1	P07477	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
LDLRAD3	Q86YD5	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
MCFD2	Q8NI22	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
PTPRD	P23468	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
IGF1R	P08069	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-

MT1H	P80294	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
ADGRA3	Q8IWK6	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
CD300LF	Q8TDQ1	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
VEGFC	P49767	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
TIMP4	Q99727	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
COX6B1	P14854	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
EFEMP1	Q12805	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
REG1A	P05451	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
EFEMP2	O95967	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
MANF	P55145	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
ATP6V1E1	P36543	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
FAM3A	P98173	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
ATP5A1	P25705	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
CPS1	P31327	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
TMEM108	Q6UXF1	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
CNTNAP3	Q9BZ76	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
C1GAL-T1C1	Q96EU7	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
SYCP2L	Q5T4T6	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
CALD1	Q05682	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
VIP	P01282	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
CARTPT	Q16568	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
ARPP21	Q9UBL0	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
CPPED1	Q9BRF8	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
WFDC1	Q9HC57	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-
FAM19A1	Q7Z5A9	✓	×	↓	1	[29]	×	-	✓	×	↓	1	[29]	×	-	×	-	×	-	×	-

SEL1L	Q9UBV2	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
SLPI	P03973	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
LDLR	P01130	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
DSTN	P60981	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
KRT9	P35527	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
PTPRS	Q13332	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
PDAP1	Q13442	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
MPZ	P25189	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
CPLX1	O14810	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
KREMEN1	Q96MU8	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
B4GALT2	O60909	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
SHISA9	B4DS77	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
C1orf21	Q9H246	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
GPR37L1	O60883	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
RPH3A	Q9Y2J0	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
GAS1	P54826	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
SERPINB6	P35237	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
CD320	Q9NPF0	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
IL1RAP	Q9NPH3	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
ACVR2A	P27037	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
TGOLN2	O43493	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
SEC62	Q99442	✓ × ↓ 1 [29]	×	-	✓ × ↓ 1 [29]	×	-	×	-	×	-	×	-
LPA	P08519	×	-	×	-	×	-	×	-	×	-	✓ × ↑ 1 [1]	
CD40	P25942	×	-	×	-	×	-	✓ ✓ ↑ 2 [4 10]	✓ × ↑ 1 [4]	✓ × ↓ 1 [1]			
CXCL2	P19875	×	-	×	-	×	-	✓ × ↑ 1 [3]	✓ × ↑ 1 [3]	×	-		

CKB	P12277	×	-	×	-	×	-	×	-	✓ × ↓ 1 [3]	✓ × ↓ 1 [3]	×	-
F3	P13726	×	-	×	-	×	-	×	-	✓ ✓ ↑ 2 [4 10]	✓ × ↑ 1 [4]	×	-
ACE	P12821	×	-	×	-	×	-	×	-	✓ × ↑ 1 [4]	✓ × ↑ 1 [4]	×	-
MMP3	P08254	×	-	×	-	×	-	×	-	✓ × ↑ 1 [4]	✓ × ↑ 1 [4]	×	-
ANGPT2	O15123	×	-	×	-	×	-	×	-	✓ ✓ ↑ 2 [4 10]	✓ × ↑ 1 [4]	×	-
TGFA	P01135	×	-	×	-	×	-	×	-	✓ ✓ ↑ 2 [4 10]	✓ × ↑ 1 [4]	×	-
KITLG	P21583	×	-	×	-	×	-	×	-	✓ ✓ ↑ 2 [4 10]	✓ × ↑ 1 [4]	×	-
FTH1	P02794	×	-	×	-	×	-	×	-	✓ ✓ ↑ 2 [4 10]	✓ × ↑ 1 [4]	×	-
AXL	P30530	×	-	×	-	×	-	×	-	✓ × ⇅ 2 [4 10]	✓ × ↓ 1 [4]	×	-
VWF	P04275	×	-	×	-	×	-	×	-	✓ × ↓ 1 [4]	✓ × ↓ 1 [4]	×	-
VCAM1	P19320	×	-	×	-	×	-	×	-	✓ × ↓ 1 [4]	✓ × ↓ 1 [4]	×	-
IL6R	P08887	×	-	×	-	×	-	×	-	×	✓ × ↑ 1 [4]	×	-
TFF3	Q07654	×	-	×	-	×	-	×	-	×	✓ × ↓ 1 [4]	×	-
FGF4	P08620	×	-	×	-	×	-	✓ × ↑ 1 [13]		×	✓ × ↓ 1 [4]	×	-
CD40LG	P29965	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
CCL11	P51671	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
FGF2	P09038	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
IGF2BP2	Q9Y6M1	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
IL1RN	P18510	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
CXCL8	P10145	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
CCL2	P13500	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
CCL22	O00626	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
CCL3	P10147	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
PAPPA	Q13219	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-
CCL18	P55774	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	×	-

APCS	P02743	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	-	×	-
AGER	Q15109	×	-	×	-	×	-	×	-	✓ × ↑ 1 [10]	×	-	×	-
TAGLN3	Q9UI15	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
TMSB10	P63313	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
SORCS1	Q8WY21	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
STMN1	P16949	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
FOLR2	P14207	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
PRRT2	Q7Z6L0	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
DYNLL2	Q96FJ2	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
SNCG	O76070	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
ATP1A2	P50993	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
UBB	P0CG47	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
PALM	O75781	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
MARCKS	P29966	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	×	-	×	-
HSPA8	P11142	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
HTRA1	Q92743	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
ATP1A3	P13637	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
ISLR2	Q6UXK2	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	×	-	×	-
PITHD1	Q9GZP4	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	✓ × ↑ 1 [12]		×	-
TXN	P10599	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	×	-	×	-
TMED4	Q7Z7H5	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	×	-	×	-
CYCS	P99999	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	×	-	×	-
SLITRK1	Q96PX8	×	-	×	-	×	-	×	-	×	-	✓ × ↑ 1 [12]	×	-
CNR1	P21554	×	-	×	-	×	-	×	-	×	-	×	✓ × ↑ 1 [12]	
CMGA	P10645	×	-	×	-	×	-	×	-	✓ × ↑ 1 [17]	✓ × ↑ 1 [17]		×	-

DKK3	Q9UBP4	×	-	×	-	×	-	✓ × ↓ 1 [27]	×	-	×	-	×	-
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In analysis, indicates that protein was reported by at least one study for the comparison in question.  
 #, Primary UniProt identifier (used for pathway analyses if applicable, see also Supplementary table 2); ↑, (consistently) increased; ↓, (consistently) decreased; ⇕, inconsistent reports of in- and decreased levels in different studies; Ref., references.

1	Leung, Y, et al. (2015)	11	Jahn, H., et al. (2011)	21	Heywood, W. E., et al. (2015)
2	Perrin, R. J., et al. (2011)	12	Dayon et al. (2018)	22	Davidsson, P., et al. (2002)
3	Craig-Schapiro, R., et al. (2011)	13	Lehallier, B., et al. (2016)	23	Brinkmalm et al. (2018)
4	Khan, W., et al. (2015)	14	Hendrickson, R. C., et al. (2015)	24	Abdi, F., et al. (2006)
5	Spellman, D. S., et al. (2015)	15	Zhang et al. (2005)	25	Hölttä, M., et al. (2015)
6	Khoonsari et al. (2019)	16	Lee, J. W., et al. (2007)	26	Puchades, M., et al. (2003)
7	Simonsen, A. H., et al. (2008).	17	Wildsmith, K. R., et al. (2014)	27	Wang et al. (2016)
8	Paterson, R. W., et al. (2016)	18	Finehout, E. J., et al. (2007)	28	Yin, G. N., et al. (2009)
9	Simonsen, A. H., et al. (2007)	19	Oláh et al. (2015)	29	Sathe et al. (2018)
10	Hu, W. T., et al. (2010)	20	Barucker et al.(2015)		