

CONDITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
TGFBI																																
FGF2																																
DEX																																
IGF1																																
BMP2																																
GENE																																
ACAN	12.9	10.4	12.6	10.5	8.1	5.8	7.4	5.7	14.2	13.1	14.1	13.3	10.8	8.8	10.5	8.4	10.7	4.1	10.4	3.9	8.3	5.6	8.3	5.1	11.8	5.0	11.8	4.5	10.5	6.0	10.3	6.4
ACTA1	1.9	2.3	2.5	1.7	2.5	2.2	3.3	1.8	3.7	3.0	3.4	3.0	2.5	2.5	0.7	2.6	0.8	1.9	1.5	0.8	2.2	1.9	2.4	1.7	1.9	2.2	1.9	1.6	2.6	2.0	2.0	2.3
ACTA2	7.1	9.1	7.3	9.1	7.4	8.8	7.2	9.4	6.6	7.1	6.2	6.9	7.1	8.9	6.8	8.8	9.0	8.7	9.0	8.7	7.7	8.7	7.7	8.8	8.5	9.0	8.4	9.0	8.4	9.7	8.0	10.0
ADAMTS1	5.6	4.8	5.2	5.3	5.3	5.5	5.7	6.1	4.9	4.7	4.4	4.8	5.9	4.9	5.4	5.2	7.7	8.2	7.8	7.8	6.8	7.8	6.8	7.8	6.8	8.1	7.2	8.2	6.6	8.4	6.0	
ADAMTS5	4.2	4.3	4.3	4.2	5.3	6.3	5.5	6.2	5.4	6.0	5.4	6.2	6.2	6.3	6.1	6.5	4.4	4.7	4.4	4.3	4.8	4.4	5.4	4.3	4.8	4.9	5.6	5.0	4.5	4.9	3.9	
ADAMTS7	6.1	6.1	6.2	6.1	6.3	6.3	6.6	6.2	5.4	6.0	5.4	6.2	6.2	6.3	6.1	6.5	7.5	7.7	5.5	5.8	7.1	6.0	7.1	6.3	7.8	6.6	7.9	6.5	7.6	7.1	7.5	7.2
ADAMTS1L	2.7	3.6	2.8	3.7	2.4	3.9	3.1	3.1	3.4	3.1	2.6	3.1	2.5	2.9	4.6	6.8	4.4	6.7	5.0	5.6	5.1	5.4	3.5	6.0	4.8	6.0	5.3	6.3	4.2	6.6		
ADAMTS4L	4.1	4.4	4.5	4.5	3.9	3.7	4.3	3.7	4.5	3.8	4.2	3.9	4.0	4.2	3.7	3.9	6.3	7.5	6.2	7.4	4.3	4.5	4.4	4.1	5.6	7.4	5.6	5.4	4.8	3.3		
AGT	3.6	3.4	3.3	3.2	3.0	4.0	3.7	4.3	3.7	4.0	3.4	4.4	4.6	4.5	4.3	4.2	4.4	2.0	4.4	2.3	3.5	4.3	3.6	3.6	3.6	4.5	4.7	3.7	3.1	3.2	3.3	5.0
AGTR1	4.1	3.8	3.3	3.1	4.1	3.8	4.6	4.1	2.9	3.2	3.3	2.5	3.6	3.9	2.6	3.7	9.2	7.3	9.3	7.4	7.4	4.8	7.8	8.4	7.7	8.3	6.2	6.0	6.3	5.5	6.5	
AGTR2	3.5	3.2	3.4	3.3	3.4	3.4	3.4	3.3	2.5	3.1	3.4	3.6	3.5	2.9	2.3	3.9	1.5	3.9	2.0	3.3	1.7	2.7	2.2	3.6	2.9	3.4	3.3	2.8	2.3			
AGTRAP/C11orf2	6.9	7.2	6.8	7.2	6.3	6.7	6.5	6.3	6.6	6.7	6.7	6.8	6.7	6.5	6.1	6.1	6.2	6.3	6.3	6.4	6.3	6.7	6.6	6.2	6.9	6.0	6.6	6.2	6.9	6.9		
ALPL	10.5	7.0	10.0	7.7	6.2	2.8	5.8	3.4	11.2	10.8	11.2	9.1	9.8	7.9	7.6	10.4	6.9	10.5	6.7	8.2	1.8	8.0	2.5	12.0	5.4	12.2	5.8	9.7	5.2	9.6	5.1	
ANG	5.2	5.0	5.0	4.5	4.0	3.7	3.8	3.4	5.0	5.0	5.3	4.0	3.8	4.1	3.7	4.8	5.4	5.4	5.2	4.2	3.6	4.7	3.7	5.0	6.2	5.1	6.1	4.4	3.7	4.4	4.3	
ANG2	3.6	3.3	3.3	2.9	2.9	3.1	3.4	3.2	2.3	2.7	3.2	3.4	1.8	3.7	5.6	3.3	5.6	3.4	3.3	2.2	3.6	2.9	5.2	4.8	5.3	4.9	2.7	2.2	4.2	1.1		
ANGPTL2	11.3	8.3	11.2	8.4	11.7	8.8	11.8	8.6	10.2	9.9	10.5	9.9	11.7	9.1	11.6	9.3	7.2	5.7	7.3	5.9	11.4	6.2	11.2	6.7	7.3	6.5	7.8	6.6	17.7	10.8	11.8	6.6
ANGPTL4	6.1	6.1	6.0	5.7	6.5	6.1	6.5	5.7	6.4	4.6	5.3	4.8	5.1	5.5	5.7	6.3	6.7	6.5	6.6	5.9	6.0	6.1	6.1	6.6	6.4	6.8	7.3	6.9	6.7	7.4		
ANGPTL5	4.4	3.2	4.2	3.4	2.9	3.1	3.7	2.7	5.4	4.6	5.4	4.7	3.2	3.1	3.4	3.3	2.9	3.7	3.3	3.4	2.8	3.5	2.2	4.2	4.5	4.4	3.0	1.5	2.6	2.0		
ANGPTL7	8.5	7.0	8.2	7.3	7.1	3.0	2.8	2.4	10.7	9.8	10.6	9.9	6.0	4.7	4.5	2.4	2.6	2.9	3.0	3.1	3.2	3.0	2.8	2.5	4.0	3.7	3.5	3.0	3.7	3.4	4.2	
APOD	10.6	10.3	10.8	10.6	5.3	5.3	5.7	5.5	10.3	10.1	10.0	9.5	5.5	5.2	5.0	4.8	10.1	11.1	10.7	7.1	8.1	6.9	8.8	10.9	10.6	10.9	6.2	7.0	6.3	6.2		
APOE	3.4	2.8	2.7	3.1	3.1	3.3	3.5	2.0	2.6	2.1	2.5	2.7	1.8	3.3	2.7	5.9	8.7	8.3	5.4	5.1	6.4	9.7	6.2	9.7	5.0	4.7	5.5	5.0	4.7	5.5	5.0	
ARHGEF19	7.5	7.2	7.0	7.0	5.3	5.3	6.5	6.1	6.4	6.0	5.5	6.7	6.4	6.4	6.3	7.0	5.1	6.9	5.3	6.2	6.3	6.0	2.7	7.6	6.8	7.2	6.7	6.8	6.8	4.5		
ARHGEF3	5.1	5.5	5.3	5.3	7.4	7.9	7.7	7.6	4.1	3.8	3.7	5.5	5.5	5.6	5.8	5.4	5.3	5.7	5.1	7.7	8.3	7.6	8.4	4.5	5.3	5.4	5.5	6.5	6.0	6.0	7.7	
ARNT2	3.2	4.1	3.4	3.7	3.7	4.1	3.4	3.9	2.8	3.3	2.5	3.6	3.3	3.7	3.8	3.6	3.9	4.2	4.3	4.5	3.4	4.1	4.6	4.6	4.9	4.3	4.5	4.6	4.9	3.5	3.5	
BAPX1	6.0	3.9	5.0	4.0	2.6	3.3	3.6	3.6	5.6	5.7	6.7	6.1	4.0	3.5	3.3	3.9	2.5	3.4	2.8	3.6	3.0	4.1	4.3	4.9	4.3	2.9	2.4	2.8	2.8	2.8		
BCL6	7.5	7.6	7.5	7.5	6.6	7.3	6.7	7.2	7.0	7.1	7.2	6.8	7.2	6.4	7.3	7.0	6.8	6.0	6.5	6.2	6.4	6.5	6.1	6.7	6.5	6.2	6.5	6.2	6.2	6.2		
BDKRB1	5.1	3.2	4.8	3.6	3.2	4.1	3.4	3.4	5.7	5.5	3.5	2.2	2.6	2.4	2.6	2.9	3.0	3.1	3.2	5.1	5.2	5.1	5.2	5.1	5.2	5.1	5.2	5.1	5.2	4.9		
BEX1	4.5	4.3	4.6	4.6	4.8	4.1	4.9	4.5	4.8	4.5	4.2	4.7	4.5	4.5	4.3	4.5	4.3	4.7	4.5	4.7	4.3	4.7	4.5	4.3	4.7	4.5	4.3	4.5	4.3	4.8		
BGLAP	5.0	4.6	4.6	4.6	7.4	7.4	7.4	7.4	6.7	7.0	6.4	7.7	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.5		
BGN	13.1	13.5	13.0	13.4	13.3	13.3	13.0	12.7	13.4	12.6	13.5	13.0	13.7	13.7	13.7	11.5	10.5	12.3	10.8	12.0	10.8	11.2	10.9	11.3	10.9	12.1	12.1	12.1	12.1	12.1		
BID	4.5	4.6	4.5	4.6	4.3	4.4	4.5	4.5	4.6	4.3	4.4	4.5	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5		
BMP2	9.0	10.0	9.9	10.0	10.1	10.0	10.0	9.7	7.7	8.6	8.8	9.3	9.2	10.2	7.5	7.4	7.4	6.6	8.6	8.7	8.1	5.2	8.1	5.4	6.2	7.8	6.1	8.4	6.4	6.2	7.7	6.9
BMP4	5.3	6.2	5.2	5.8	5.7	5.7	5.6	5.7	6.0	7.1	7.1	7.2	7.3	7.3	7.3	7.3	5.2	5.1	5.2	4.6	6.1	6.3	5.7	6.1	5.8	6.0	4.4	6.2	3.7	6.9		
BMP6	3.8	4.4	3.7	4.0	3.7	3.5	3.6	2.8	4.1	3.3	3.6	3.4	3.2	3.7	3.7	3.4	3.7	3.6	3.7	3.6	3.7	3.6	3.7	3.6	3.7	3.6	3.7	3.6	3.7	3.6		
BMP7	3.3	2.6	2.8	2.4	2.1	2.4	2.4	3.1	3.3	3.1	3.0	3.4	3.2	3.4	3.2	3.1	2.1	1.2	1.5	1.4	1.4	1.5	1.4	2.0	3.0	2.2	2.8	1.5	3.7	1.5		
BMPR1A	7.3	7.1	7.0	7.4	7.2	7.3	7.3	6.3	6.7	6.2	6.7	7.3	7.4	7.4	7.4	7.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1		
BMPR1B	2.9	3.2	3.0	2.9	2.0	3.3	3.0	2.2	3.0	2.7	3.0	3.1	3.0	3.2	3.0	3.2	2.1	2.2	1.5	2.4	3.0	2.1	2.4	3.2	2.4	2.9	2.8	2.7	2.7	2.7		
BMPR2	7.3	7.2	7.4	7.2	7.0	7.4	7.0	7.4</td																								

CRYGS	6.9	5.5	6.9	5.4	5.7	5.7	5.5	5.7	6.8	6.4	7.1	6.3	6.2	6.0	6.0	5.8	5.4	3.4	5.3	3.7	5.6	4.3	5.8	3.7	6.6	4.0	6.2	4.3	6.6	4.5	7.6	3.0
CTGF	12.2	11.5	12.0	11.9	9.3	8.6	9.0	8.8	13.5	12.8	13.1	12.9	10.9	9.5	10.8	9.3	8.6	7.5	8.7	7.4	8.9	8.2	8.6	8.1	9.7	8.5	9.6	8.6	9.0	9.1	10.6	9.1
CTNNB1	12.3	12.5	12.2	12.5	11.2	11.3	11.2	11.4	11.9	12.5	11.8	12.7	11.8	11.8	11.7	11.7	11.3	10.4	11.3	10.4	11.1	11.1	11.1	11.0	11.9	10.9	11.8	11.2	11.2	11.4	11.5	
CXCL12	3.8	4.6	3.7	4.5	7.3	8.8	7.6	8.9	3.0	3.7	3.3	3.4	5.1	7.3	6.1	8.0	5.5	7.9	5.0	7.8	6.4	8.3	6.4	8.1	5.6	9.1	5.9	9.2	6.6	10.1	6.1	10.1
CXCL14	8.2	5.9	7.7	5.8	3.0	1.9	3.0	2.2	9.6	9.0	9.5	9.3	6.5	6.3	6.1	5.6	1.3	1.0	3.2	1.3	2.3	2.2	3.1	2.2	4.1	1.3	3.8	1.2	3.9	2.0	3.5	1.1
CXCL16	3.5	3.5	3.6	3.5	4.2	3.9	4.2	3.9	3.8	3.4	3.2	3.8	3.1	4.1	3.6	3.5	4.2	4.0	4.0	3.5	5.4	4.8	5.2	4.4	3.7	4.2	3.0	3.6	5.6	4.8	5.1	4.9
CYB5B	7.8	7.7	7.7	7.8	7.4	7.4	7.5	7.6	7.6	8.0	7.8	7.8	7.8	7.7	7.8	7.6	7.9	7.5	7.5	8.0	7.7	8.0	7.6	7.6	7.7	7.4	7.9	7.4	8.2	7.4		
CYC1	6.3	6.3	6.4	6.4	5.9	5.8	6.0	5.7	6.3	6.6	6.6	6.5	6.8	6.5	6.6	6.3	6.1	5.8	6.2	6.0	5.9	6.3	5.5	6.0	5.6	6.3	6.0	6.2	5.4	6.3	6.0	
DCN	12.8	13.1	12.9	13.0	11.2	11.2	11.3	11.2	12.3	12.1	12.1	12.2	10.9	11.5	11.0	11.7	13.3	12.2	13.3	12.4	10.7	9.8	10.8	9.6	13.1	13.0	13.0	13.0	10.7	10.6	10.6	10.8
DDIT3	5.7	5.7	5.9	5.7	6.5	6.3	6.3	6.5	6.9	6.3	6.3	6.6	6.2	6.3	6.4	6.5	6.4	6.4	6.7	7.3	6.5	6.7	7.2	6.9	7.5	7.4	7.3	7.4	6.7			
DKK1	6.3	4.4	5.4	4.6	4.7	2.9	4.9	2.3	6.7	6.2	6.7	6.0	6.7	4.5	6.2	4.2	6.1	2.3	6.4	2.9	6.7	2.0	7.2	2.5	5.4	4.1	5.7	4.4	4.9	3.1	5.4	2.7
DKK2	3.0	4.2	2.1	3.8	3.9	3.0	4.3	3.3	2.6	2.1	2.1	2.0	4.0	3.1	4.1	2.4	2.9	1.8	3.1	2.7	3.8	2.3	3.5	1.7	3.0	3.0	3.3	2.3	3.3	3.6	4.8	2.9
DLX5	8.4	8.5	8.8	8.7	7.4	6.4	7.5	6.4	7.7	8.2	7.8	7.7	7.8	7.9	7.5	7.5	8.0	7.7	8.0	7.6	7.6	7.7	7.4	7.9	7.4	8.2	7.4					
DPT	9.0	9.7	9.0	9.5	7.3	5.6	7.4	5.4	7.1	9.1	7.1	9.3	7.7	7.3	7.4	7.1	7.3	8.0	7.4	8.0	6.3	8.3	10.1	8.1	10.0	8.5	8.5	8.6	8.7	8.7	8.7	
EFNA1	5.6	5.7	5.6	5.4	5.4	4.5	5.5	4.4	6.4	5.8	5.1	6.1	5.5	5.4	5.2	5.3	5.6	5.1	5.0	3.7	5.2	3.5	6.3	4.7	6.3	4.4	5.2	4.8	5.4	2.7		
EIFNB2	3.2	4.3	3.3	4.3	3.6	3.5	3.6	3.2	3.9	3.2	3.5	3.2	3.1	3.5	3.6	3.0	2.3	3.4	3.8	3.7	3.9	3.4	2.4	3.1	3.7	3.6	3.6	3.7	5.3	2.9		
EIF2B1	7.3	7.3	7.5	7.3	7.4	7.0	7.1	7.2	7.3	7.1	7.2	7.3	7.4	7.2	7.3	7.2	7.3	6.8	7.4	6.8	7.6	7.5	7.5	7.4	7.6	7.2						
ELF1	7.1	6.8	7.0	6.8	6.8	6.9	7.0	6.8	6.4	6.4	6.4	6.7	6.5	6.8	6.8	7.6	6.8	7.0	6.3	7.3	6.6	7.6	7.2	7.6	7.1	7.5	6.7	7.3	7.1			
ELN	4.4	5.3	4.3	5.4	3.8	4.0	3.8	4.8	4.4	5.7	4.8	5.3	5.1	5.7	3.8	2.5	3.1	3.5	2.6	3.6	3.1	4.5	4.5	3.8	3.3	4.7	3.5	4.3	4.2			
EPHA2	6.8	7.2	6.7	7.1	6.7	6.9	7.7	7.3	5.8	5.8	5.3	5.8	7.9	7.9	7.9	5.9	5.9	6.2	4.9	7.4	5.4	7.4	5.9	6.3	5.2	6.3	5.8	7.9	5.8	7.6	6.2	
EPYC	8.4	8.4	8.1	7.0	6.4	5.0	5.9	5.3	9.6	9.2	9.5	9.0	7.0	6.4	6.8	6.6	3.1	4.4	2.1	6.6	1.3	10.0	1.2	9.5	1.4	3.5	2.1	4.0	3.5			
ERF	8.1	7.8	8.1	7.8	7.8	7.7	7.7	7.6	8.0	8.4	8.2	8.3	8.6	8.5	8.4	8.2	6.7	8.2	6.5	8.2	8.0	7.2	8.2	6.7	8.1	6.6	8.0	8.0	7.1			
FGF1	6.9	6.4	6.6	6.1	5.2	5.8	4.9	4.9	6.9	6.9	7.0	7.1	5.9	5.4	5.6	5.2	4.2	2.6	4.2	18	4.0	5.2	3.7	4.4	3.6	4.4	3.7	5.0	2.4			
FGF2	6.2	5.7	5.8	5.8	5.8	5.2	5.9	5.1	6.6	6.3	6.5	6.3	5.8	4.8	5.9	5.0	4.9	5.3	4.9	4.9	5.9	5.4	5.8	5.5	5.3	5.2	4.9	4.8	6.1	5.4	6.4	5.5
FGF7	6.5	6.9	6.5	6.7	7.7	8.1	8.2	8.0	5.5	5.5	5.5	5.9	5.6	6.0	5.0	7.0	8.6	7.2	8.6	7.0	9.1	8.0	9.0	8.7	8.0	8.6	7.9	8.7	8.8	8.7	8.9	
FGFBP2	8.0	6.7	7.7	6.5	5.1	3.8	4.5	3.2	9.9	9.7	9.7	9.9	7.4	6.6	7.3	6.0	3.9	2.6	3.7	2.9	3.0	3.2	5.5	3.8	3.6	3.3	4.0	3.6	3.0	4.8	4.0	
FGFR1	9.6	9.7	9.4	9.6	11.0	10.9	11.0	11.2	7.9	7.9	7.7	9.1	10.0	10.4	10.8	8.8	9.1	8.9	9.0	10.9	10.6	10.5	9.0	9.7	9.8	9.8	10.6	10.3	10.5	10.5		
FGFR2	4.7	4.7	4.6	4.5	3.3	3.7	3.2	3.4	4.1	4.6	4.0	4.3	4.8	4.2	4.4	4.0	4.4	2.4	2.2	4.7	4.4	3.7	4.5	4.8	3.7	5.1	4.0	5.1	4.5	5.0	4.3	
FGFR3	10.0	7.1	9.9	7.1	8.5	5.5	5.4	5.4	5.5	10.6	9.2	9.3	9.2	9.3	7.2	8.8	2.3	8.9	2.0	10.0	1.1	9.9	2.4	9.5	2.6	9.6	2.7	11.4	3.5	11.3	3.6	
FGFR4	5.8	4.1	6.0	4.0	3.8	2.6	3.5	2.9	6.2	5.4	6.1	5.0	3.8	4.7	3.2	3.1	2.5	3.3	2.4	2.2	3.4	2.1	3.4	2.3	4.3	3.2	4.4	3.1	3.8	3.0	4.8	4.0
FGFRL1	9.3	8.1	9.2	8.3	9.0	8.3	8.9	8.2	10.0	9.4	10.1	9.4	9.5	8.7	9.3	8.7	7.6	7.3	7.6	7.1	8.0	7.1	8.3	7.1	8.3	7.0	8.3	7.0	8.3	7.0		
FMOD	12.4	11.0	12.2	11.0	8.2	8.8	9.9	13.0	13.0	13.0	11.5	9.9	11.3	9.8	8.1	7.1	8.0	7.1	7.7	7.5	7.6	7.5	8.1	7.7	8.7	6.7	8.3	6.7				
FN1	16.3	16.5	16.2	16.6	16.3	16.5	16.2	16.8	16.5	16.4	16.6	16.3	16.6	16.5	16.5	16.4	16.5	15.5	15.5	15.5	15.3	15.4	14.0	15.1	13.8	14.9	14.0	15.8	13.9	15.7		
FOXA2	5.8	2.7	5.2	3.1	3.6	2.1	2.8	2.2	7.4	6.2	7.4	6.3	4.2	2.7	3.3	2.8	2.3	2.1	2.8	1.8	2.0	2.9	2.4	1.7	4.2	1.8	3.8	2.0	3.4	1.1		
FOX3A	3.6	3.0	3.7	2.8	2.8	3.4	2.9	3.1	2.7	3.1	2.9	2.8	2.7	2.8	2.9	2.8	2.7	2.6	2.7	2.8	2.9	2.8	2.7	2.7	2.8	2.7	2.8	2.7	2.8	1.3		
FOXC1	5.5	5.7	5.5	5.5	5.1	5.1	5.5	5.0	5.8	5.3	5.9	5.7	6.0	5.8	5.6	5.5	5.6	5.7	5.5	5.6	5.5	5.6	5.5	5.6	5.5	5.6	5.5	5.6	5.5	5.6	5.5	
FOXC2	6.6	6.0	6.7	6.8	7.3	6.2	7.6	7.3	6.2	6.5	6.2	6.6	6.2	6.5	6.2	6.5	6.2	6.5	6.2	6.5	6.2	6.5	6.2	6.5	6.2	6.5	6.2	6.5	6.2	6.5		
FOXD1	7.4	7.4	7.3	7.3	7.6	7.1	7.1	7.3	7.0	7.5	7.1	7.2	7.0	7.5	7.1	7.2	7.0	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
FOXD2	2.7	2.4	2.0	2.6	2.1	2.3	2.2	2.2	2.8	2.5	2.8	2.3	3.1	3.1	3.1	2.7	2.2	3.0	2.3	3.1	2.8	2.9	2.3	2.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
FOXMX1	6.2	6.8	6.1	6.8	4.8	5.1	4.9	5.1	5.2	5.8	5.3	5.4	5.1	5.2	4.7	3.3	4.6	3.3	4.5	3.8	3.8	4.7	4.4	4.6	4.2	5.2	4.6	5.1	5.1	5.2		
FOXO1	8.3	9.2	8.4	9.2	8.8	9.3	8.9	8.7	6.6	7.2	6.4	7.2	6.2	7.0	8.0	7.2	8.8	7.3	6.4	5.7	5.6	5.2	6.5	5.9	6.2	6.7	8.4	5.6	5.6	5.1	6.2	
FOXQ1	3.3	6.0	3.7	5.9	3.2	3.5	2.9	3.1	2.4	2.8	2.3																					

MEF2D	5.9	6.3	6.2	6.2	6.6	6.3	6.4	6.4	6.4	5.9	6.3	6.0	6.1	6.4	6.0	6.5	5.9	5.5	5.7	5.4	6.1	5.7	6.2	6.2	6.1	5.7	5.7	6.0	6.0	6.0	6.0	5.6			
MGP	10.4	9.6	10.3	9.8	11.4	10.1	11.5	9.8	9.4	9.7	9.5	9.6	10.8	10.1	11.1	10.1	9.1	9.3	9.1	9.3	10.2	8.3	10.1	8.4	9.4	10.9	9.2	11.1	10.0	6.7	10.1	6.7			
MIA	8.9	6.7	8.0	6.9	6.0	4.5	5.6	4.2	9.2	8.4	9.1	9.0	7.3	5.8	7.4	6.0	5.0	2.3	5.2	2.3	5.4	4.2	5.5	4.3	6.4	3.5	6.1	3.4	5.4	4.1	5.9	5.0			
MMP1	2.1	3.7	1.7	3.7	7.2	8.2	8.1	8.3	2.7	1.7	2.2	2.0	3.2	5.2	4.0	6.2	1.5	2.1	2.4	1.9	5.8	7.0	5.3	7.6	1.4	2.6	2.3	2.8	3.0	7.4	3.7	7.1			
MMP13	9.3	10.8	9.4	11.1	12.8	13.7	13.3	13.0	6.6	6.5	6.7	6.5	10.5	11.9	10.7	12.5	9.8	3.3	9.8	3.0	11.2	11.2	11.3	11.0	9.2	4.7	8.9	4.5	10.3	11.1	9.9	11.0			
MMP2	11.1	11.4	10.9	11.3	10.7	11.2	10.8	11.2	11.3	11.2	11.2	11.4	11.1	11.5	11.0	11.5	9.9	11.0	9.7	11.0	10.4	11.2	11.2	10.1	11.8	10.0	11.9	10.8	11.8	10.9	11.6				
MMP28	6.0	5.4	6.2	5.7	4.3	4.5	4.2	4.4	6.2	6.0	6.2	6.2	4.3	4.8	4.8	4.5	7.2	6.7	7.1	6.7	4.3	3.3	4.0	3.0	7.8	7.8	7.4	8.1	3.8	4.4	4.1	4.6			
MMP3	4.3	5.0	4.0	5.2	3.5	3.3	2.3	3.2	5.3	3.9	4.4	3.8	3.6	3.3	4.0	3.6	3.3	2.5	3.1	3.0	2.9	1.1	1.9	1.7	2.5	2.6	2.3	2.2	3.0	3.6	2.1	3.1	3.7	2.9	3.5
MMP7	5.3	6.6	5.9	6.5	2.8	2.4	2.0	2.4	6.3	6.9	6.0	7.0	3.1	2.6	2.1	1.5	8.8	8.0	8.7	7.9	4.1	1.8	3.6	2.9	8.5	9.9	8.3	10.0	3.6	3.2	4.3	2.7			
MMP8	3.4	3.0	3.3	2.7	3.2	2.9	3.7	2.0	3.6	3.3	3.5	3.5	3.8	3.3	3.1	3.4	4.4	2.4	3.6	2.1	3.2	1.0	3.7	2.6	3.8	2.5	3.8	2.2	4.3	3.7	3.9	3.3			
MMP9	3.7	3.5	3.4	3.5	4.6	3.2	4.9	3.5	3.2	3.3	3.3	3.5	4.5	5.0	4.5	4.7	2.9	1.7	3.4	2.0	4.0	3.3	4.6	3.8	3.7	2.8	3.4	3.0	4.5	5.4	5.2	4.6			
MST1	4.2	3.5	4.0	3.8	4.3	3.7	3.8	3.3	4.4	3.7	3.8	3.6	3.3	4.0	4.5	5.3	4.7	5.3	4.5	5.5	3.4	5.7	4.2	5.3	5.1	5.6	5.7	5.6	4.5	5.8	4.5				
MST4	7.5	5.8	7.3	5.6	5.4	4.5	5.2	4.5	8.7	8.1	8.9	8.2	6.1	5.2	6.3	4.9	4.1	3.6	4.1	3.5	4.8	3.8	4.5	5.4	3.9	5.5	4.3	5.2	4.7	5.1	4.6				
MSX1	6.9	5.7	6.7	6.0	6.2	4.8	6.2	6.0	5.1	4.9	5.2	5.2	6.1	5.4	5.7	5.6	7.3	3.4	8.3	8.4	4.1	8.5	4.0	6.4	4.3	6.6	4.1	8.1	8.1	4.9					
MYC	7.5	7.8	7.4	7.0	5.6	5.1	5.6	5.1	8.1	8.0	8.1	8.0	7.5	6.6	6.6	6.3	6.5	7.4	6.4	8.4	5.5	5.0	5.5	5.0	7.0	7.7	7.1	7.8	5.4	5.8	4.9				
NFAT5	7.3	6.8	7.2	6.8	7.0	7.4	7.0	7.3	7.4	7.4	7.5	7.2	7.3	7.0	6.7	6.5	6.9	6.7	7.5	6.8	7.3	7.0	6.8	6.8	6.9	7.6	6.8	7.2	7.0						
NFE2	1.4	0.9	0.4	1.1	0.9	1.2	1.8	0.9	1.7	1.2	1.4	1.7	1.4	0.7	1.1	1.5	0.4	0.8	0.9	1.0	1.1	1.6	1.5	0.2	2.1	1.5	1.0	1.4	2.7	0.9	1.5	2.1			
NFIB	3.5	3.5	3.3	3.2	2.9	3.5	3.5	3.5	3.7	3.7	3.5	3.5	3.3	3.5	3.5	3.5	6.6	6.5	6.9	6.6	6.0	5.8	5.7	5.8	6.2	7.2	6.0	7.0	5.4	6.6	5.4	6.0			
NFL3	6.3	6.3	6.2	6.2	4.9	5.2	5.3	5.0	6.9	6.4	6.6	6.5	5.5	5.4	5.3	5.3	7.1	6.9	6.9	6.8	6.5	6.3	6.7	5.8	7.2	8.7	7.0	8.9	6.4	6.8	6.4				
NFKBIA	7.7	7.2	7.7	7.2	6.3	5.8	6.6	6.3	6.8	6.3	6.5	6.3	6.3	6.8	6.3	6.8	8.9	7.6	8.9	7.7	7.3	6.0	9.0	8.5	8.9	8.4	7.8	6.8	7.8	6.7					
NGEF	6.9	6.3	6.9	6.5	6.2	5.8	6.3	5.7	7.4	7.3	7.7	7.3	7.0	7.1	7.0	6.9	4.0	2.6	4.0	2.4	4.7	5.1	4.7	5.8	2.1	3.6	2.7	4.0	3.6	3.7	4.0				
NOG	5.9	3.1	6.0	2.8	2.6	2.2	2.7	0.9	7.0	4.1	7.0	4.3	3.9	1.6	2.0	2.7	2.6	1.5	2.9	1.6	2.1	2.4	2.1	2.4	2.7	2.8	3.0	3.1	3.1	3.8	4.5				
NOS2	5.9	4.3	5.4	5.2	4.2	3.3	1.9	2.1	6.3	6.6	6.7	6.3	4.5	3.2	4.4	3.2	3.6	1.3	1.9	2.0	2.8	3.2	2.3	3.6	3.0	4.0	2.7	4.0	3.6	3.7	4.0				
NOTCH1	3.7	4.2	3.9	4.2	5.1	5.5	5.3	5.6	3.5	3.9	3.5	3.9	4.3	4.5	4.2	4.3	3.5	3.8	3.3	4.4	5.2	5.2	5.3	4.7	4.2	4.4	4.1	3.2	5.5	4.9	5.5				
NOTCH2	9.2	9.3	9.2	9.4	9.0	8.7	9.0	8.6	8.3	8.7	8.1	8.7	8.9	8.8	8.2	8.8	9.6	8.6	8.8	9.7	9.0	9.5	9.0	10.3	8.8	10.2	9.1	10.3	9.8	10.2					
NOTCH3	8.7	8.7	8.7	8.7	9.6	8.5	8.7	8.7	6.7	6.5	6.7	6.5	6.7	6.5	6.5	6.7	6.5	7.5	7.4	7.5	8.2	7.5	7.5	6.6	7.9	6.5	7.3	7.3	7.5	7.3					
NOX1	2.6	2.1	2.2	2.3	3.1	2.2	2.7	2.9	2.7	2.4	2.1	2.5	1.8	2.0	2.7	2.6	1.5	2.9	1.4	2.1	2.4	2.0	3.4	2.6	3.2	2.6	3.1	4.8	2.7	3.1	2.6				
NPAS2	5.7	6.1	5.4	5.9	3.5	3.8	3.3	3.7	7.0	6.4	6.6	6.5	3.7	4.1	4.5	4.8	3.4	2.6	2.1	2.5	2.0	2.6	2.1	2.5	2.0	2.4	2.7	2.3	2.2	3.5	3.2	4.0			
NR4A2	4.4	4.0	4.2	3.9	5.0	4.3	4.9	4.0	4.0	4.4	3.9	4.3	4.2	3.5	3.7	4.1	4.6	4.8	4.9	5.4	4.3	3.6	3.8	2.9	4.0	4.0	4.6	3.5	4.1	4.3					
NRG1	4.4	4.2	4.0	4.1	4.4	4.4	4.8	4.4	4.5	4.3	4.4	4.3	4.2	3.5	3.3	3.4	5.1	4.7	4.0	4.3	4.3	3.8	4.7	4.2	4.3	5.0	3.8	5.3	3.2						
OAF	8.5	6.3	8.5	6.5	6.2	5.2	5.9	5.2	9.1	8.4	9.2	8.3	7.8	6.4	7.7	6.1	6.5	4.6	5.1	6.5	6.3	6.0	7.5	4.4	7.3	4.9	5.6	6.3	6.7	5.7					
OGN	8.8	8.8	7.7	8.4	7.1	6.5	7.7	7.2	7.9	7.1	7.7	8.8	8.6	9.1	8.4	9.0	6.1	9.2	5.8	7.2	7.0	8.0	8.2	7.3	7.0	7.5	7.5	7.5	8.5						
OMD	11.0	10.4	10.8	10.1	10.7	10.0	8.0	9.3	9.4	10.3	10.2	10.6	11.1	10.3	10.2	10.5	10.6	5.1	10.2	10.4	10.4	10.4	10.6	11.6	11.6	11.6	11.4	11.4	11.4						
PANX3	9.8	8.1	9.3	7.6	4.3	3.6	4.0	3.4	9.6	11.3	10.0	11.4	9.3	8.1	8.5	8.6	9.9	6.3	9.3	7.7	10.0	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4					
PBX1	5.1	5.0	4.9	5.1	6.1	5.9	6.1	5.8	3.6	4.3	3.7	4.3	5.8	6.0	6.1	6.5	6.6	6.2	6.7	6.2	7.1	6.0	7.2	6.0	7.2	6.0	7.2	6.0	7.2	6.0	7.2				
PPCOLCE2	9.0	7.4	8.7	7.5	6.9	6.2	6.2	6.2	7.0	8.1	7.7	8.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0					
PRC1	12.1	12.1	11.8	11.6	9.8	9.5	9.4	9.5	12.5	12.5	12.5	12.5	10.4	10.8	10.2	9.7	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5			
RPL144	7.4	7.4	7.5	7.4	5.9	6.3	5.7	6.3	7.0	7.2	6.8	7.4	6.5	6.8	6.5	6.5	5.3	5.7	5.6	5.8	4.4	6.4	5.4	6.4	5.4	6.4	5.4	6.4	5.4	6.4	5.4	6.4			
RPL37A	13.8	13.7	13.6	13.6	13.1	13.0	13.2	13.1	14.0	13.8	13.9	14.0	13.6	13.5	13.4	13.4	14.3	14.2	14.4	14.2	13.9	12.7	12.7	14.4	14.4	14.3	14.5	14.0	14.0	14.3	14.3				
RPS2L	9.9	9.9	10.0	9.9	10.2	10.4	10.2	10.4	9.9	10.0	9.9	10.3	10.0	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2					
RUNX1	8.5	8.9	8.3	8.9	9.2	9.4	9.3	9.2	7.7	8.2	7.7	8.3	8.9</td																						

UNQ830	6.0	3.4	5.6	3.3	2.9	2.2	2.5	1.4	7.5	6.2	7.5	6.1	4.4	2.8	4.4	3.1	2.9	2.8	3.0	2.4	2.8	2.8	3.2	2.9	4.0	4.0	2.4	4.4	2.4	3.6	2.2	2.9	1.8
VBP1	6.8	6.9	6.8	7.0	6.5	6.5	6.8	6.7	6.7	6.9	6.8	6.8	7.0	6.9	6.9	7.1	7.0	6.5	7.1	6.7	7.1	6.5	7.2	6.4	7.1	6.4	7.0	6.5	7.4	6.6	7.2	5.7	
VCAM1	3.4	5.8	3.0	5.8	6.1	8.8	6.9	8.9	2.2	3.0	2.0	2.3	4.0	7.5	5.5	7.8	4.8	6.0	4.1	5.9	5.9	9.2	5.9	9.1	4.4	6.5	4.5	6.3	5.0	9.5	5.3	9.1	
VCAN	8.3	8.5	8.0	8.6	8.4	8.3	8.4	8.3	8.0	8.3	7.9	8.1	8.7	9.0	8.7	8.7	9.8	9.2	9.3	9.3	10.0	7.3	9.7	7.3	9.7	10.3	9.7	10.0	10.9	8.3	10.7	8.5	
WNT10B	4.8	3.8	4.3	3.4	3.9	2.6	3.8	2.9	4.4	5.1	4.1	5.1	6.2	5.0	6.1	4.7	2.1	1.2	2.0	1.2	2.4	1.0	2.6	0.8	2.7	2.1	4.3	0.8	2.7	2.9	1.7	2.3	
WNT11	8.5	6.8	8.2	6.5	5.9	4.8	5.3	4.6	9.4	9.2	9.4	9.2	8.7	7.4	8.4	7.4	3.6	2.9	3.3	3.0	4.1	2.7	3.8	2.9	5.6	3.5	5.8	3.5	5.1	3.6	5.3	4.0	
WNT3A	3.2	2.8	3.0	2.9	2.8	2.5	2.9	2.8	4.4	3.7	3.9	3.3	2.8	2.5	2.1	3.0	1.1	1.6	1.4	1.6	2.0	1.9	2.6	0.8	0.9	1.1	1.2	1.7	3.3	2.6	2.9	1.8	
WNT4	3.8	2.5	3.8	2.2	2.3	2.1	3.0	2.7	4.4	4.0	4.5	4.2	3.8	3.1	2.5	2.8	2.1	2.2	2.4	1.6	2.6	1.8	3.5	1.2	2.4	2.2	2.8	2.1	3.0	2.1	3.5	2.4	
WNT5A	10.5	10.2	10.4	10.3	11.7	11.3	11.9	11.3	7.9	7.6	7.8	7.8	9.8	9.8	9.8	10.1	11.8	9.5	11.8	9.6	12.4	11.3	12.4	11.4	10.1	8.9	10.1	8.4	12.1	10.5	12.2	10.4	
WNT5B	8.0	8.5	7.9	8.8	8.5	8.4	8.7	8.4	6.4	7.1	6.4	7.1	7.8	8.1	8.1	8.1	7.5	8.1	7.5	8.0	7.0	7.0	6.8	7.1	6.5	7.5	6.2	7.8	7.6	7.1	7.6	7.5	
WNT7A	3.4	2.4	3.0	2.3	2.4	1.8	2.8	1.6	4.7	3.4	4.4	3.9	2.7	2.6	2.8	1.1	2.8	2.3	2.6	1.8	1.6	2.8	2.0	1.4	2.9	2.4	2.4	2.8	3.4	2.4	3.2	3.5	
ZBTB16	6.8	7.0	6.8	6.9	3.3	2.7	3.1	2.8	6.7	6.2	6.3	6.4	3.0	3.4	3.3	1.5	8.9	8.7	9.0	8.8	9.5	2.6	3.1	0.2	9.0	9.7	8.7	9.7	3.5	27	3.4	1.6	
ZNF277	6.4	6.6	6.4	6.3	6.3	6.2	6.5	6.2	6.1	6.0	6.1	6.0	6.2	6.4	5.6	6.4	7.0	7.2	7.0	6.9	6.1	6.8	6.2	7.2	7.7	7.0	7.7	7.4	6.5	7.2	6.3		
ZNF521	6.1	6.2	5.6	6.2	5.9	6.1	5.7	6.1	6.1	6.1	5.9	6.3	5.9	6.1	5.2	6.3	5.7	5.8	6.0	5.9	6.1	6.5	6.0	6.5	5.9	6.6	5.7	6.3	6.3	6.7	6.2	6.3	
ZNF533	6.5	4.9	6.4	4.7	4.0	1.7	3.3	2.2	7.7	7.1	7.7	7.2	6.0	4.0	5.5	3.4	2.3	2.4	2.1	2.4	2.4	1.2	3.1	2.7	4.4	3.7	4.1	3.6	3.6	2.0	1.5	1.9	