

Table 2. Top 7 pathways enriched in common genes induced by overexpression of CXCL12 and PGK1 in NSF

Pathways	Gene Symbol	Gene Title	CXCL12	PGK1
			Fold Change	Fold Change
Apoptosis	CADM1	cell adhesion molecule 1	28.89	25.15
	BTG1	B-cell translocation gene 1, anti-proliferative	28.22	29.83
	NR4A2	nuclear receptor subfamily 4, group A, member 2	22.2	16.89
	TRPS1	trichorhinophalangeal syndrome I	21.25	14.7
	HDIL3	HCF-like repeats and diSSIDin I-like domains 3	21.17	17.39
	MAPK10	mitogen-activated protein kinase 10	20.27	19.76
	ADRB2	adrenergic, beta-2, receptor, surface	19.67	20.56
	ITGB8	integrin, beta 8	17.2	14.26
	PCGU4F1	PCGU class 4 homeobox 1	16.91	10.93
	ABCA1	ATP-binding cassette, sub-family A (ABCA), member 1	12.95	7.61
	CD2	CD2 molecule	12.33	9.88
	EDAR	ectodysplasin A receptor	11.73	13.88
	ERCC6	excision repair cross-complementing group 6	11.23	8.4
	IFNG	interferon, gamma	11.22	7.45
	NR4A3	nuclear receptor subfamily 4, group A, member 3	11.12	9
	TP63	tumor protein p63	11.08	11.42
	CD40	CD40 molecule, TNF receptor superfamily member 5	10.97	9.25
	PPP3CC	Protein phosphatase 3, catalytic subunit, gamma isoform	10.72	12.15
	RYBP	RING1 and YY1 binding protein	10.24	5.8
	COLA4A3	collagen, type IV, alpha 3 (Goodpasture antigen)	9.88	8.43
	ACTC1	actin, alpha, cardiac muscle 1	9.57	12.4
	CSENK1A1	cass亲in kinase 1, alpha 1	9.19	11.27
	EIF4G2	eukaryotic translation initiation factor 4 gamma, 2	8.8	7.38
	XIAP	X-linked inhibitor of apoptosis	8.64	9.14
	PML	promyelocytic leukemia	8.35	9.14
	HIPK3	homodomain interacting protein kinase 3	8.21	9.87
	TNFRSF9	tumor necrosis factor receptor superfamily, member 9	8.11	6.8
	FCER1G	Fc fragment of IgE, high affinity I, receptor for: gamma polypeptides	7.94	11.52
	ADCYRA1	adenosine A1 receptor	7.72	7.03
	PPP3R1	protein phosphatase 3, regulatory subunit B, alpha isoform	7.61	11.94
	GAL	galanin prepropeptides	7.55	8.29
	JUN	Jun oncogene	7.28	12.36
	BCL6	B-cell CLL/lymphoma 6 (zinc finger protein 51)	7.1	3.88
	BAX	BCL2-associated X protein	6.39	7.94
	MMP9	matrix metalloproteinase 9	6.08	6.6
	CASP2	caspase 2	6.06	2.78
	RTLL1	regulator of telomere elongation helicase 1	5.92	5.07
	VEGFA	vascular endothelial growth factor A	5.9	5.82
	CUL3	cullin 3	5.56	6.5
	BRE	brain and reproductive organ-expressed (TNFRSF1A modulator)	4.53	4.09
	ZFAND5	zinc finger, AN1-type domain 5	4.33	4.02
	PPP2CA	protein phosphatase 2, catalytic subunit, alpha isoform	3.89	4.03
	CSENK1A1	cass亲in kinase 1, alpha 1	3.81	3.26
	SIAH1	seven in absentia homolog 1 (Drosophila)	3.63	3.39
	CULL1	cullin 1	3.61	3.55
	PTPN6	protein tyrosine phosphatase, non-receptor type 6	3.36	2.25
	ACVR1	activin A receptor, type I	3.28	4.68
	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	2.98	4.91
	MAGED1	melanoma antigen family D, 1	2.98	2.78
	H2F1	H2F transcription factor 1	2.57	2.51
	PDCD10	programmed cell death 10	2.52	2.95
	SCPL1	sphingosine-1-phosphate lyase 1	2.43	2.73
	ATGS	ATGS autophagy related 5 homolog (S. cerevisiae)	2.35	2.5
	EP300	ELA binding protein p300	2.17	3.41
	TAX1BP1	Tax1 (human T-cell leukaemia virus type I) binding protein 1	2.14	2.48