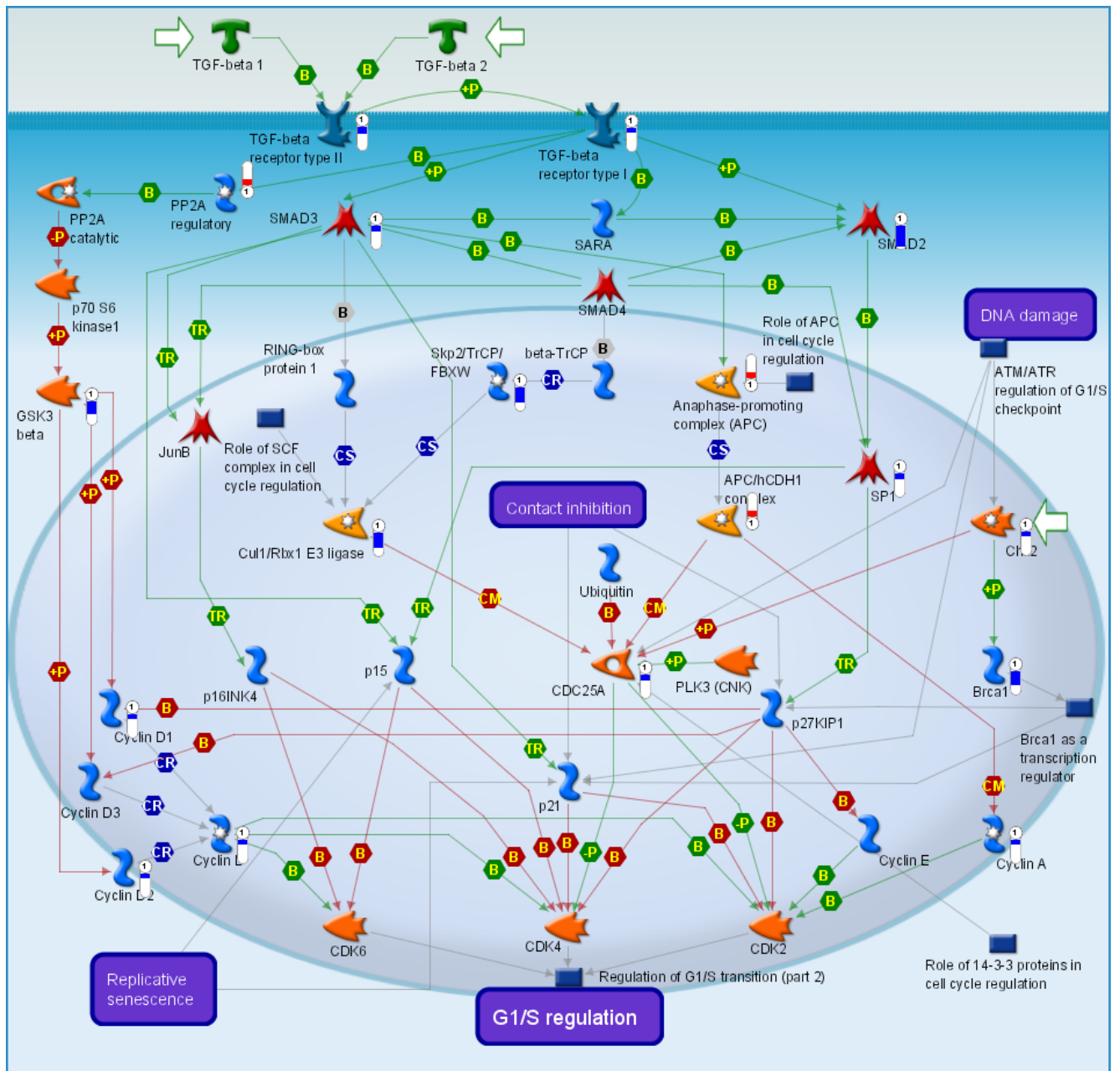














A. Cell cycle Regulation of G1/S transition



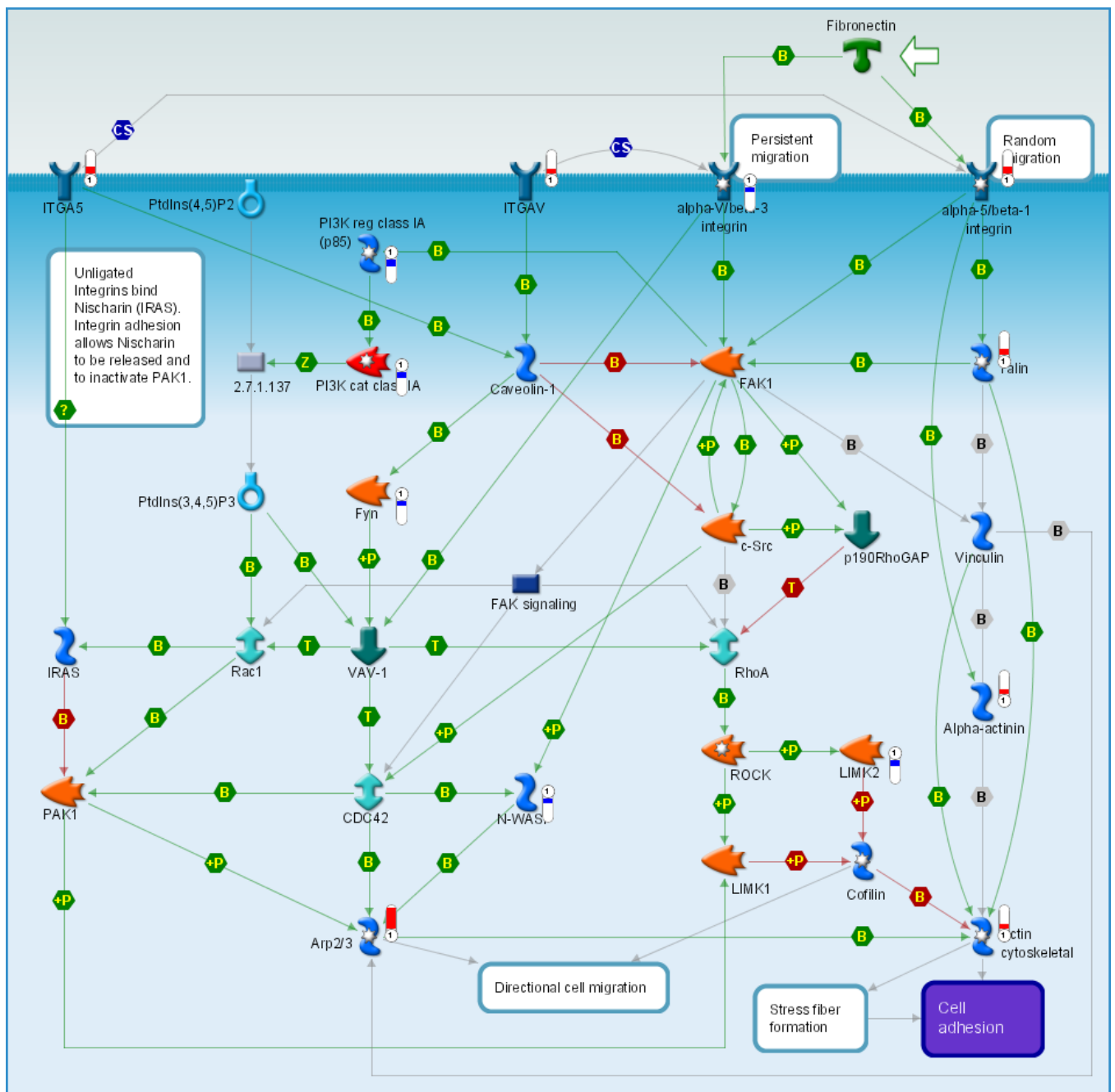
Gene Symbol	Protein	Class	Protein name	Fold Change
ANAPC1	Protein		Anaphase-promoting complex subunit 1	
ANAPC10	APC1_HUMAN		Anaphase-promoting complex subunit 10	
ANAPC11	APC10_HUMAN		Anaphase-promoting complex subunit 11	
ANAPC13	APC11_HUMAN		Anaphase-promoting complex subunit 13	
ANAPC2	APC13_HUMAN		Anaphase-promoting complex subunit 2	

ANAPC4	ANC2_HUMAN		Anaphase-promoting complex subunit 4	
ANAPC5	APC4_HUMAN		Anaphase-promoting complex subunit 5	
ANAPC7	APC5_HUMAN		Anaphase-promoting complex subunit 7	
BRCA1	APC7_HUMAN		Breast cancer type 1 susceptibility protein	-5.38
BTRC	BRCA1_HUMAN		F-box/WD repeat-containing protein 1A	
CCNA1	FBW1A_HUMAN		Cyclin-A1.	
CCNA2	CCNA1_HUMAN		Cyclin-A2	-1.72
CCND1	CCNA2_HUMAN		G1/S-specific cyclin-D1	-1.78
CCND2	CCND1_HUMAN		G1/S-specific cyclin-D2.	-1.79
CCND3	CCND2_HUMAN		G1/S-specific cyclin-D3.	
CCNE1	CCND3_HUMAN		G1/S-specific cyclin-E1.	
CDC16	CCNE1_HUMAN		Cell division cycle protein 16 homolog	
CDC23	CDC16_HUMAN		Cell division cycle protein 23 homolog	
CDC25A	CDC23_HUMAN		M-phase inducer phosphatase 1	-2.02
CDC26	MPIP1_HUMAN		Anaphase-promoting complex subunit CDC26	
CDC27	CDC26_HUMAN		Cell division cycle protein 27 homolog	2.05
CDK2	CDC27_HUMAN		Cell division protein kinase 2	
CDK4	CDK2_HUMAN		Cell division protein kinase 4	
CDK6	CDK4_HUMAN		Cell division protein kinase 6	
CDKN1A	CDK6_HUMAN		Cyclin-dependent kinase inhibitor 1	
CDKN1B	CDN1A_HUMAN		Cyclin-dependent kinase inhibitor 1B	
CDKN2A	CDN1B_HUMAN		Cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3	
	CD2A1_HUMAN		Cyclin-dependent kinase inhibitor 2A, isoform 4	
CDKN2B	CD2A2_HUMAN		Cyclin-dependent kinase 4 inhibitor B	
CHEK2	CDN2B_HUMAN		Serine/threonine-protein kinase Chk2	-1.75
CUL1	CHK2_HUMAN		Cullin-1	
FBXW11	CUL1_HUMAN		F-box/WD repeat-containing protein 11	
FBXW7	FBW1B_HUMAN		F-box/WD repeat-containing protein 7	-5.77

























FZR1	FBXW7_HUMAN		Fuzzy-related protein homolog	
GSK3B	FZR_HUMAN		Glycogen synthase kinase-3 beta	-4.81
JUNB	GSK3B_HUMAN		Transcription factor jun-B.	
PLK3	JUNB_HUMAN		Serine/threonine-protein kinase PLK3	
PPP2CA	PLK3_HUMAN		Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	
PPP2CB	PP2AA_HUMAN		Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform	
PPP2R2A	PP2AB_HUMAN		Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform	
PPP2R2B	2ABA_HUMAN		Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B beta isoform	
PPP2R2C	2ABB_HUMAN		Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B gamma isoform	
PPP2R3A	2ABG_HUMAN		Serine/threonine-protein phosphatase 2A regulatory subunit B'' subunit alpha	
PPP2R3B	P2R3A_HUMAN		Serine/threonine-protein phosphatase 2A regulatory subunit B'' subunit beta	
PPP2R4	P2R3B_HUMAN		Serine/threonine-protein phosphatase 2A regulatory subunit B'	
PPP2R5A	PTPA_HUMAN		Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit alpha isoform	2.11
PPP2R5B	2A5A_HUMAN		Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit beta isoform	
PPP2R5C	2A5B_HUMAN		Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform	
PPP2R5D	2A5G_HUMAN		Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform	
PPP2R5E	2A5D_HUMAN		Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit epsilon isoform	
RBX1	2A5E_HUMAN		RING-box protein 1	
RPS27A	RBX1_HUMAN		40S ribosomal protein S27a.	
RPS6KB1	RS27A_HUMAN		Ribosomal protein S6 kinase beta-1	
SKP1	KS6B1_HUMAN		S-phase kinase-associated protein 1	
SKP2	SKP1_HUMAN		S-phase kinase-associated protein 2	-1.91



















SMAD2	SKP2_HUMAN		Mothers against decapentaplegic homolog 2	-8.03
SMAD3	SMAD2_HUMAN		Mothers against decapentaplegic homolog 3	-2.23
SMAD4	SMAD3_HUMAN		Mothers against decapentaplegic homolog 4	
SP1	SMAD4_HUMAN		Transcription factor Sp1.	-1.97
TGFB1	SP1_HUMAN		Transforming growth factor beta-1 precursor	
TGFB2	TGFB1_HUMAN		Transforming growth factor beta-2 precursor	
TGFBR1	TGFB2_HUMAN		TGF-beta receptor type-1 precursor	-1.76
TGFBR2	TGFR1_HUMAN		TGF-beta receptor type-2 precursor	-2.54
UBA52	TGFR2_HUMAN		Ubiquitin.	
	UBIQ_HUMAN		60S ribosomal protein L40	
UBB	RL40_HUMAN		Ubiquitin.	
ZFYVE9	UBIQ_HUMAN		Zinc finger FYVE domain-containing protein 9	

B Cytoskeleton remodeling fibronectin-binding integrins in cell motility



Gene Symbol	Protein	Class	Protein name	Fold Change
ACTB	ACTB_HUMAN		Actin, cytoplasmic 1	1.83
ACTG1	ACTG_HUMAN		Actin, cytoplasmic 2	
ACTN1	ACTN1_HUMAN		Alpha-actinin-1	
ACTN2	ACTN2_HUMAN		Alpha-actinin-2	

ACTN3	ACTN3_HUMAN		Alpha-actinin-3	
ACTN4	ACTN4_HUMAN		Alpha-actinin-4	1.97
ACTR2	ARP2_HUMAN		Actin-related protein 2	
ACTR3	ARP3_HUMAN		Actin-related protein 3	
ACTR3B	ACTR3B		ARP3 actin-related protein 3 homolog B (yeast)	
ARPC1A	ARC1A_HUMAN		Actin-related protein 2/3 complex subunit 1A	
ARPC1B	ARC1B_HUMAN		Actin-related protein 2/3 complex subunit 1B	
ARPC2	ARPC2_HUMAN		Actin-related protein 2/3 complex subunit 2	
ARPC3	ARPC3_HUMAN		Actin-related protein 2/3 complex subunit 3	
ARPC4	ARPC4_HUMAN		Actin-related protein 2/3 complex subunit 4	
ARPC5	ARPC5_HUMAN		Actin-related protein 2/3 complex subunit 5	9.43
CAV1	CAV1_HUMAN		Caveolin-1.	
CDC42	CDC42_HUMAN		Cell division control protein 42 homolog precursor	
CFL1	COF1_HUMAN		Cofilin-1	
CFL2	COF2_HUMAN		Cofilin-2	
FN1	FINC_HUMAN		Fibronectin precursor	
FYN	FYN_HUMAN		Proto-oncogene tyrosine-protein kinase Fyn	-1.93
GRLF1	GRLF1_HUMAN		Glucocorticoid receptor DNA-binding factor 1	
ITGA5	ITA5_HUMAN		Integrin alpha-5 precursor	2.82
ITGAV	ITAV_HUMAN		Integrin alpha-V precursor	1.93
ITGB1	ITB1_HUMAN		Integrin beta-1 precursor	
ITGB3	ITB3_HUMAN		Integrin beta-3 precursor	-2
LIMK1	LIMK1_HUMAN		LIM domain kinase 1	
LIMK2	LIMK2_HUMAN		LIM domain kinase 2	-2.5

LOC643751				
NISCH	NISCH		Nischarin	
PAK1	PAK1_HUMAN		Serine/threonine-protein kinase PAK 1	
PIK3CA	PK3CA_HUMAN		Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha isoform	-2.4
PIK3CB	PK3CB_HUMAN		Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform	2.01
PIK3CD	PK3CD_HUMAN		Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta isoform	
PIK3R1	P85A_HUMAN		Phosphatidylinositol 3-kinase regulatory subunit alpha	-3.02
PIK3R2	P85B_HUMAN		Phosphatidylinositol 3-kinase regulatory subunit beta	-1.91
PTK2	FAK1_HUMAN		Focal adhesion kinase 1	
RAC1	RAC1_HUMAN		Ras-related C3 botulinum toxin substrate 1 precursor	
RHOA	RHOA_HUMAN		Transforming protein RhoA precursor	
ROCK1	ROCK1_HUMAN		Rho-associated protein kinase 1	
ROCK2	ROCK2_HUMAN		Rho-associated protein kinase 2	
SRC	SRC_HUMAN		Proto-oncogene tyrosine-protein kinase Src	
TLN1	TLN1_HUMAN		Talin-1.	2.31
TLN2	TLN2_HUMAN		Talin-2.	
VAV1	VAV_HUMAN		Proto-oncogene vav.	
VCL	VINC_HUMAN		Vinculin	
WASL	WASL_HUMAN		Neural Wiskott-Aldrich syndrome protein	-1.72