

Figure S1

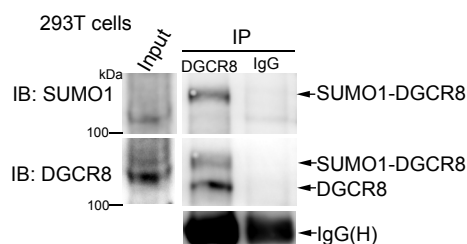
A SUMOplot prediction of human DGCR8

Protein ID:	gi 38488720 ref NP_073557.3
Defintion:	microprocessor complex subunit DGCR8 isoform 1 [Homo sapiens]
Length:	773 aa

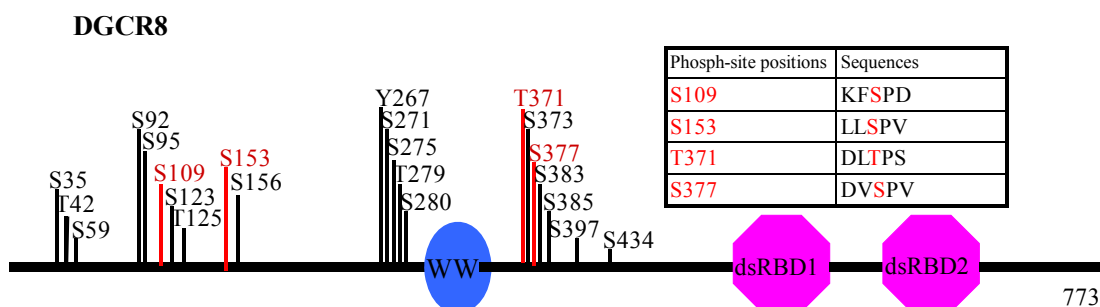
1 METDESPL PCGPAGEAVM ESRARPFQAL PREQSPPPPL QTSSGAEVMD	Motifs with high probability Motifs with low probability Overlapping Motifs
51 VGSGGDGQSE LPAEDPFNFY GASLLSKGSF SKGRLLIDPN CSGHSPRTAR	
101 HAPAVRKFSF DLKLLKDVKI SVSFTESCRS KDRKVLTYGA ERDVRAECGL	
151 LLSPVSGDVH ACPFGGSVDG GVGIGGESAD KKDE ENELDQ EKRVEYAVLD	
201 ELEDFTDNLE LDEEGAGGFT AKAIVQRDRV DEEALNFPYE DDFDNDVDAL	
251 LEEGLCAPKK RRTE EKY GGD SDHPSDGETS VQPMMTKIKT VLKSRGRPPT	
301 EPLPDGWIMT FHNSGVPVYL HRESRVVTVS RPYFLGTGSI RKHD PPLSSI	
351 PCLHYKMKMD NEEREQSSDL TPGGDVSPVK PLSRSAELEF PLDEPDSMGA	
401 DPGPPD EKDP LGAEAAPGAL GQVK AKVE VC KDESVDLEEF RSYL EKR FDF	
451 EQVT VK KFRF WAERRQFNRE MKRKQAESER PILPANQKLI TSVQDAP TK	
501 KEF VINPN GK SEVVCILHEYM QRVLKVRPVY NFFECENPSE PFGASVTIDG	
551 VTYGSGTASS KKLAKNKAAR ATLEILIPDF VKQTSEEKPK DSEELEYFNH	
601 ISTEDSRVYE LTSKAGLLSP YQILHECLKR NHGMGDT SIK FEVVPGKN QK	
651 SEYVMACGKH TVRGWCKNKR VGKQLASQKI LQLLHPHVKN WGSLLRMYGR	
701 ESSKM VKQ ET SDKSVIELQQ YAKKNKPNLH ILSKLQEEMK RLAEEREETR	
751 KK FKMSIVAS AQPGEPLCT VDV	

No.	Pos.	Group	Score	No.	Pos.	Group	Score
1	K640	MGDTS IKFE VVPGK	0.94	8	K182	GESAD KKDE ENELD	0.48
2	K707	ESSKM VKQE TSDKS	0.93	9	K342	GTGSI RKHD PPLSS	0.44
3	K426	LGQVK AKVE VCKDE	0.79	10	K408	PGPPD EKDP LGAEA	0.39
4	K510	VINPN GKSE VCILH	0.67	11	K751	EREET RKKP KMSIV	0.34
5	K456	FEQVT VKKF RTWAE	0.58	12	K266	KRRTE EKYG GDS DH	0.33
6	K650	VPGKN QKSE YVMAC	0.5	13	K446	FRSYL EKRF DFEQV	0.15
7	K181	GGESA DKKD EENEL	0.5	14	K501	QDAPT KKEF VINPN	0.13

B



C



Mut4:S109A/S153V/T371A/S377V

