

Figure S1

A

		TA	
1	hGrh12	MSQESDNNKR LVALVMPSD PPFNTRRAYT SEDEAWKSYL ENPLATAATKA MMINGDEDS AAALGLLYDY YKVPDKRLL SVSKASDSQE DQE KRNCLGT	
	mGrh12	MSQESDNNKR LVALVMPSD PPFNTRRAYT SEDEAWKSYL ENPLATAATKA MMSINGDEDS AAALGLLYDY YKVPDKRLL SVSKASDSQE DQE KRNCLGT	
	zGrh12a	MAQEE.. NKR LVVVVP.. NE MTVPSRAFT SEDEAWKSYL ENPLATAATKA MMSINGDEDS VAALGILYDY YKVPKEKRLL PVHKLPEDHE K... S	
	zGrh12b	MSQETDS.KR LVVVVP.. NE PSFHORRPT SEDEAWRSYL ENPLATAATKA MMSINGDEDS AAALGLLYEY YKVPDKRVR. PISKVEMSD EPE KASTPVG	
101	hGrh12	SEAQSNISSGG ENRVQVLKTV PVNLSLNQDH LENSKREQYS ISFPESSAI PVSGITVVKA EDFTPVFMAP PVHYPRGDGE EQRVVIQEQT QYDVPSLATH	
	mGrh12	SEAQNLSGG ENRVQVLKTV PVNLCLSQDH MENSKREQYS VSITESAVI PVSGITVVKA EDFTPVFMAP PVHYPRADSE EQRVVIQEQT QYDLPSLASH	
	zGrh12a	RISQDGLESA ENRIHVLSL PVNLSLNPDS .EN. KQDLFG TVPAEDGVV.AT. VKP EVYAQSFSS. ..HHQQLHYH RTPY...HP HLQDSSVSH	
	zGrh12b	NSSQMEPETV DHNVQVLKSV PVNLSLNTDH QDN. KREQYS VPAGESGTA.AVVKA EAHTAVFMTS GGHY RTEGE EQMRVIECQT HSFDTSINH	
		CP2-DBD	
201	hGrh12	SAYLKDDQRS TPDSTYSESF KDAATEKFRS ASVGAEYEMY DQTSS.GTFQ YTLEASKSLR QKGEGPMTY LNKGQFYAIT LSETGDNKCF RHPISKVRSV	
	mGrh12	SSYLKDDQRS TPDSTYSESF KGDASEKFRS TSVGADEFMY DQTGS.GTFQ YTLEASKSLR QKGEGPMTY LNKGQFYAIT LSETGDNKCF RHPISKVRSV	
	zGrh12a	DRYMKDDQCS TPDSTFEDSY PEDPMRYRVP TTPAADEFTH EQAGL NMHQ YNIEASRSVR EKAADGPMVY LNKGQFYGIT LSETGANKGL RHPISKVRTV	
	zGrh12b	SAYGKDDHRS SPESTY.... EDDSNEKYRS SSIGPDDIF DQSHMLDTFQ YTLEASKSLR QKGEGPMTY LNKGQFYAIT LSETSANKRL RHPISKVRSV	
301	hGrh12	VMVVFSEDKN RDEQLKYWKY WHSRQHTAKQ RVLDIADYKE SFNTIGNIEE IAYNAVSFTW DVNEEAKIFI TVNCLSTDTS SQKGVKGLPL MIQIDTYSYN	
	mGrh12	VMVVFSEDKN RDEQLKYWKY WHSRQHTAKQ RVLDIADYKE SFNTIGNIEE IAYNAVSFTW DVNEEAKIFI TVNCLSTDTS SQKGVKGLPL MIQIDTYSYN	
	zGrh12a	VMVFFQECR RDEQLKHWNY WHTRQHTAKQ RVLDIADYKE SFNTIGNIEE IAYNAVSFTW DPAAVHKSCF ASVILL	
	zGrh12b	VMVVFSEDKN RDEQLKYWKY WHSRQHTAKQ RVLDIADYKE SFNTIGNIEE IAYNAVSFTW DLNEEAKIFI TVNCLSTDTS SQKGVKGLPL MIQIDTYSYN	
401	hGrh12	NRSNPKIHLRA YCQIKVFCDK GAERKIRDEE QKQRNRKGKG QASQTQCNS SDGKLAAPL QKKSDITYFK TMPDLHSQPV LFIPDVHFAN LQRTGQVY.Y	
	mGrh12	NRSNPKIHLRA YCQIKVFCDK GAERKIRDEE RKQRNRKGKG QASQAQCNSN SDGKMAAPL QKKSDITYFK TMPDLHSQPV LFIPDVHFAN LQRTGQVY.Y	
	zGrh12b	NRSNPKPLHLRA YCQIKVFCDK GAERKIRDEE RKQRNRKTKKG K..... DGGSGTVTV PKKCDSTLFK TMTDLDQPV LFIPDVHFGN LQRAGQVFAF	
		DIM	
501	hGrh12	NTDDEREGGS VLVKRMFRPM EEEFGPVPKS QMKEEGTKRV LLYVRKETDD VFDAIMLKSP TVGMGLMEAIS EKYGLPVEKI AKLYKKSKKG ILVNMDDNII	
	mGrh12	NTDDEREGSS VLVKRMFRPM EEEFGPTPSK QIKEENVKRV LLYVRKENDD VFDAIMLKSP TVKGMLMEALS EKYGLPVEKI TKLYKKSKKG ILVNMDDNII	
	zGrh12b	NTEEIECEGS VLVKRMFRSS EEDFCPPPHK QLREDTQKRV LLYVRKESDE VFDAIMLRSP TVRGMLDAIS EKYGVIDRM AKIYKKSKKG ILVNMDDNII	
601	hGrh12	EHYSNEDTFI LNMESMVEGF KVTLMEI	
	mGrh12	EHYSNEDTFI LNMESMVEGF KITLMEI	
	zGrh12b	EHYSNEDTFI LNIESYDAY KITLMEI	

B

	% IDENTITY		% HOMOLOGY	
	<i>hGrh12</i>	<i>mGrh12</i>	<i>hGrh12</i>	<i>mGrh12</i>
<i>grhl2a</i>	57.8%	58.1%	70.1%	71.6%
<i>grhl2b</i>	70.2%	69.9%	80.5%	80.7%

