

BIOCHEMISTRY

including biophysical chemistry & molecular biology

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ACCESSION	PROTEIN NAME	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100							
CFAI_HUMAN	Factor I	VSLKH.GN.TDSEGI	VEVKLV	VDQDKT	MFICKSSWSMRE		ANVACLDL	LGPGQ	GADTQR	.RFLK	SDLSIN		STEC	LHVH	CRGLE	.TSLA	EACT	PTFKR	TMG		YQDFAD	VVCV						
XLC3BC4B	Factor I (Xenopus)	FTLTQ.NG.EPGKG	IKVKLP	TFEQSL	FLFCQK	QWSNRE	.....	ANVVC	CRQLG	STKG	ADASA	.SDKVF	SLVTEK	.....	PPEHC	IQAT	CRGLE	.TSLA	EACAL	KLPMQD	.....	NQVAKV	TCV					
MMU47810	Factor I (Mouse)	VSLIY.GR.TKTEG	LVLQV	KLDVDR	MFICKNSWSMAE	.....	ANVACV	LDLGL	PVGRD	IQGSF	NI	SGNLHIN	.....	DTCL	LHVH	CRGVE	.TSLA	EACT	PKRTE	.....	SNGLAG	VVCV						
MSRE_BOVIN	Macrophage Scavenger Rec.	VRVLG.GS.GPHEG	RVEIFH	.EQQW	GTVCDD	RWELRG	.....	GLVVC	RSLS	GVYK	QSVH	.KRAYF	FGKGTG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
MSRE_HUMAN	Macrophage Scavenger Rec.	VRVLV.GS.GPHEG	RVEILH	.EQQW	GTICDDR	WREVV	.....	GQVVC	RSLS	GVYQ	QAVH	.KAAH	FGQGTG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
RABMSRIA	Macrophage Scavenger Rec. (Rabbit)	VRVLV.GR.GPHEG	RVEILH	.NQGW	GTVCDD	HWELRA	.....	GQVVC	RSLS	GVYQ	QAVH	.KAAH	FGQGTG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
MSRE_MOUSE	Macrophage Scavenger Rec.	VRVLG.GS.GAHEG	RVEIFH	.QQQW	GTICDDR	WDIRA	.....	GQVVC	RSLS	GVYQ	QAVH	.KAAH	FGQGTG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
MMHANA	MAMA (Mouse)	MRLVN.GA.SANEG	RVEIFY	.RGRW	GTVCDD	NLWLLD	.....	AHVCR	ALG	YENAT	QAL	.GAA	FGPGKG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
HUMMAC2A	MAC-2 BINDING PROTEIN (Human)	MRLAD.GG.ATNQG	RVEIFY	.RGQW	GTVCDD	NLWLLD	.....	ASVVC	ALG	YENAT	QAL	.GAA	FGPGKG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
MYCYCLOC	CYCLOPHILIN C-ASSOC. PROT. (Mouse)	MCLVN.GA.SANEG	RVEIFY	.RGRW	GTVCDD	NLWLLD	.....	AHVCR	ALG	YENAT	QAL	.GAA	FGPGKG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
SPER_STRPU	SPERACT RECEPTOR (Sea urchin) Rpt1	IRLIL.GR.TENEG	SVEIYH	.ATRW	GVCDN	WMHMHEN	.....	ANVT	CKQLG	FPGAR	QFY	.RRAYF	GAHVT	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
SPER_STRPU	SPERACT RECEPTOR (Sea urchin) Rpt2	IRLML.GD.VPNEG	TLETFW	.DGAW	GSVCHT	DFGTDP	.....	GNVAC	ROAGY	SRGVK	SIK	.TDGH	FGFSTG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
SPER_STRPU	SPERACT RECEPTOR (Sea urchin) Rpt3	IRLMD.GD.GPCEG	RVEIWH	.DDAW	GTICDD	GWADW	.....	ANVVC	ROAGY	SRGVK	SIK	.TDGH	FGFSTG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
SPER_STRPU	SPERACT RECEPTOR (Sea urchin) Rpt4	VRIV.GM.QQGGQ	RVEIWL	.GNGW	GRVCD	PDWSDKE	.....	AKTV	CHAGY	KWGA	SRAGS	AEV	SPFLEA	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
WC11_BOVIN	ANTIGEN WC1.1 Rpt1	LRLKD.GV.HRCCE	GRVEVH	.QGEW	GTIDG	YRTLKH	.....	ASVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt2	VRLAG.GD.GPCCS	GRVEVH	.GEAW	TPVSD	GNFTLAT	.....	AQI	ICAE	LGC	GKAV	SVL	.GH	FPRESSA	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt3	VRMTNGS.QSCEG	QVEMNI	.SQWR	ALCASH	WSLAN	.....	ANVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt4	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt5	LRMVS.ED.QQCA	GWLVEFY	.NGTW	GSVCR	NPMEDIT	.....	VSTI	CRQ	LGC	GS	STLN	.SS	VALREGER	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt6	IRLVD.GG.QCSCG	RVEIWH	.DDAW	GTICDD	GWADW	.....	ANVVC	ROAGY	SRGVK	SIK	.TDGH	FGFSTG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV			
WC11_BOVIN	ANTIGEN WC1.1 Rpt7	VRLAG.GD.GPCCS	GRVEVH	.GEAW	TPVSD	GNFTLAT	.....	AQI	ICAE	LGC	GKAV	SVL	.GH	FPRESSA	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt8	VRLAG.GD.GPCCS	GRVEVH	.GEAW	TPVSD	GNFTLAT	.....	AQI	ICAE	LGC	GKAV	SVL	.GH	FPRESSA	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt9	VRLAG.GD.GPCCS	GRVEVH	.GEAW	TPVSD	GNFTLAT	.....	AQI	ICAE	LGC	GKAV	SVL	.GH	FPRESSA	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt10	VRLAG.GD.GPCCS	GRVEVH	.GEAW	TPVSD	GNFTLAT	.....	AQI	ICAE	LGC	GKAV	SVL	.GH	FPRESSA	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
WC11_BOVIN	ANTIGEN WC1.1 Rpt11	VRLAG.GD.GPCCS	GRVEVH	.GEAW	TPVSD	GNFTLAT	.....	AQI	ICAE	LGC	GKAV	SVL	.GH	FPRESSA	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt1	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt2	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt3	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt4	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt5	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt6	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt7	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt8	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
HSM130AC2	M130 ANTIGEN (Human) Rpt9	LRLVD.GD.GPC	AGRVEIL	.QGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
CD6_HUMAN	CD6 Rpt1	IRLQD.GP.TSCS	GRVEIWH	.GGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
CD6_HUMAN	CD6 Rpt2	IRLQD.GP.TSCS	GRVEIWH	.GGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
CD6_HUMAN	CD6 Rpt3	IRLQD.GP.TSCS	GRVEIWH	.GGSW	GTICDD	GWDLDD	.....	ARVVC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
CD5_HUMAN	CD5 Rpt1	WRLTG.GA.DRCEQ	QVEVH	.RGMV	TVCD	SEWYPS	.....	AKVIC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
CD5_MOUSE	CD5 Rpt1	WRLTG.GA.DRCEQ	QVEVH	.RGMV	TVCD	SEWYPS	.....	AKVIC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
RNCD5RN	CD5 (Rat) Rpt1	ARLTR.SN.SKCCQ	QVEVH	.RGMV	TVCD	SEWYPS	.....	AKVIC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
SHPDCC5	CD5 (Sheep) Rpt1	VMLSG.SN.SKCCQ	QVEVH	.RGMV	TVCD	SEWYPS	.....	AKVIC	RLQ	CGG	AL	IGFP	.GGA	YFGPLG	.....	PIWL	NEV	FCFGKE	.SSIE	ECCR	IRQW	TRAL	.....	CSH	HDAG	VVCV		
CD5_BOVIN	CD5 Rpt1	MRISG.SG.SRCQ	GRLEVS	.N	GTWY	AVHSG	WSQ	SLVQ	VPAR	QFLK	QCL	RDP	PLLS		SLHMF	KDRFP		QKLM	ICHGQ	L	GSF	NSC	LSNR	GRVQ		DSLAL	ICL	
CD5_HUMAN	CD5 Rpt2	LVAQS.GG.QHCAG	VVEFY	.GSL	GGTIS	YEAQ	DKTQDL		ENFL	CN	LQGS	FLK	HLPE	TEAG	RQDP	PREH	QPLP	IQWK	IQNS	SSCTSL		HCPR	KIK	PKQS		GRVL	ALLCS	
CD5_MOUSE	CD5 Rpt2	LVPGH.EG.LRCT	GVVEFY	.GSW	GGTILY	KAKR	PVLD		GNL	ICK	SQGS	FLTH	LSR	TEAG	TAPAE	LRDP	LRPLP	IRWEA	PNGS	CVSLQ		OCFO	KTT	TAQEG		QOAL	TVICS	
RNCD5RN	CD5 (Rat) Rpt2	LVPGH.EG.LRCT	GVVEFY	.GSW	GGTILY	KAKR	PVLD		GNL	ICK	SQGS	FLTH	LSR	TEAG	TAPAE	LRDP	LRPLP	IRWEA	PNGS	CVSLQ		OCFO	KTT	TAQEG		QOAL	TVICS	
SHPDCC5	CD5 (Sheep) Rpt2	LVAEP.GG.LRCAG	VVEFY	.GSG	GGTITG	IEPQ	DEIKDL		QOL	ICAA	LQGS	FLK	HLPE	TEAG	TAPAE	LRDP	LRPLP	IRWEA	PNGS	CVSLQ		OCFO	KTT	TAQEG		QOAL	TVICS	
CD5_BOVIN	CD5 Rpt2	LVAEP.GG.LRCAG	VVEFY	.GSG	GGTITG	IEPQ	DEIKDL		QOL	ICAA	LQGS	FLK	HLPE	TEAG	TAPAE	LRDP	LRPLP	IRWEA	PNGS	CVSLQ		OCFO	KTT	TAQEG		QOAL	TVICS	
CD5_HUMAN	CD5 Rpt3	SLRVG.GS.SICEG	TVEVRQ	.GAQ	WAL	CDSS	ARS	SSLR		WEEV	CREQ	QCQGS	VNSYR		VLDA		DKTS	FPGL	CAQEK		LSQC	YH	LQKK	TH	CH		KRVF	VTQ
CD5_MOUSE	CD5 Rpt3	SLRVG.GS.SICEG	TVEVRQ	.GAQ	WAL	CDSS	ARS	SSLR		WEEV	CREQ	QCQGS	VNSYR		VLDA		DKTS	FPGL	CAQEK		LSQC	YH	LQKK	TH	CH		KRVF	VTQ
RNCD5RN	CD5 (Rat) Rpt3	SLRVG.GS.SICEG	TVEVRQ	.GAQ	WAL	CDSS	ARS	SSLR		WEEV	CREQ	QCQGS	VNSYR		VLDA		DKTS	FPGL	CAQEK		LSQC	YH	LQKK	TH	CH		KRVF	VTQ
SHPDCC5	CD5 (Sheep) Rpt3	SLRVG.GS.SICEG	TVEVRQ	.GAQ	WAL	CDSS	ARS	SSLR		WEEV	CREQ	QCQGS	VNSYR		VLDA		DKTS	FPGL	CAQEK		LSQC	YH	LQKK	TH	CH		KRVF	VTQ
CD5_BOVIN	CD5 Rpt3	SLRVG.GS.SICEG	TVEVRQ	.GAQ	WAL	CDSS	ARS	SSLR		WEEV	CREQ	QCQGS	VNSYR		VLDA		DKTS	FPGL	CAQEK		LSQC	YH	LQKK	TH	CH		KRVF	VTQ
RESIDUE CONSERVATION		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100							
90% conserved		***	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
70% conserved		***	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
PREDICTED STRUCTURE		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100							
GORI		EEBET	tc	cctcc	EEEEEE	ttttct	Ettttt	EEEEE	.....	HHHEE	ttttt	cccc	EEEC	ccEEEC	cccc	EE	ttttt	ttttt	tt	tttt	EEEEEE							
GORII		EEBET	tc	cctct	*EEEE	tttEE	Ectt	Hcctt	.....	HHHEE	ttttt	cccc	EEEC	ccEEEC	cccc	EE	ttttt	ttttt	tt	tttt	EEEEEE							
Chou Fasman		E*Eht	tt	tttt	HHHHH	tttEE	EEEt	ttHHHH	.....	*EEEE	ttttt	HHHHH	HHHHH	Hcctt	HHHHH	ttttt	HHHEE	*HHEE	tt	tt	HHHH	EEEEEE						
SAPIENS		ioEio	oo	ooio	ioEEEE	oooio	iooooo	ioooo	.....	ooooio	iooooo	ioH	HHHH	iooooo	iooooo	iooooo	iooooo	iooooo	iooooo	io	iooooo	iooooo						
PHD		llell	ll	lllll	EEEEEE	lllEE	EEEl	llllll	.....	HHHHH	lllll</																	