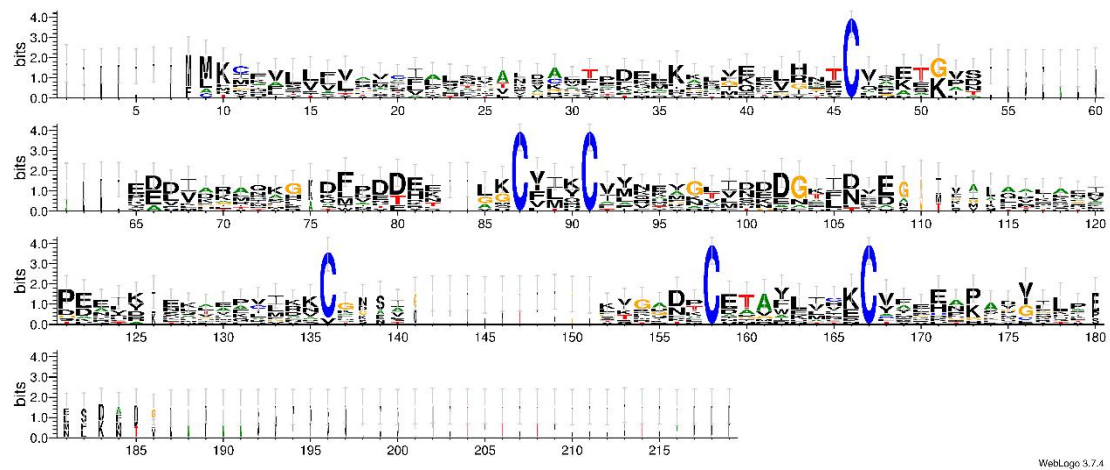
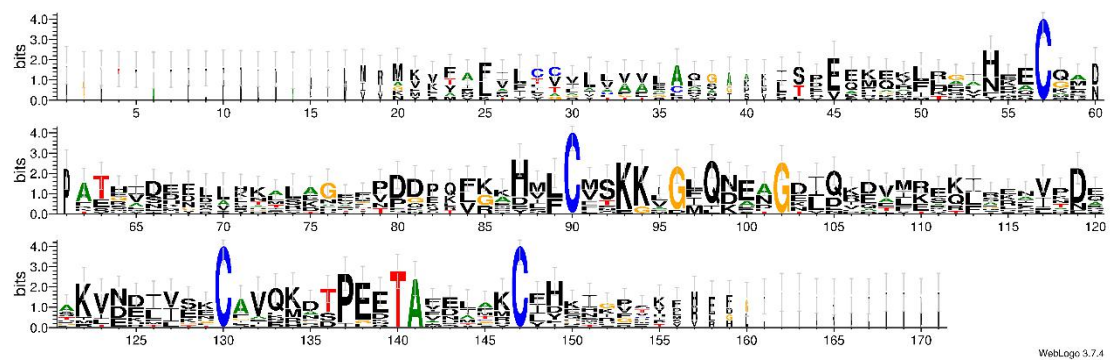


Classic OBP

SbifOBP4	.MKFLLLVSLIF..AVSNALDK.....EFVEKMKMKMQ	30
SbifOBP11	.MKVLLLLLAYVF..VATHAMDK.....EFAAKFVQEVQ	30
SbifOBP2	MLKINVFIIVVAICFALSRLVVA.....VVPDDMKQKMQ	33
SbifOBP3	MLKIRASVFVIVCIALSR.....ANLDELKPLFE	29
SbifOBP5	.MCKKFVLLLVGMYPPLN.MG.....LTKEELEVGE	30
SbifOBP6	...MKYCVLVFLCMAIPSV.IC.....VS.DEIKKLIE	28
SbifOBP7	.MKCVFILYLFF.VIHDVAYS.....MTEKQLNATKK	31
SbifOBP16	.MKCFILVVIFSNLLLTEVKS.....MTEQLIAAVK	32
SbifOBP28	.MRGIATTAVLVLALSAVTLGQ.....NYSDEEKKRII	32
SbifOBP30	.MTFFLVLVVLSIWTPTAPAA.....STTTISKGPFK	32
SbifOBP26	MVNFIYFFAFCAVLVSTSAEIKENDTNRCDIPPAAPKRVE	40
SbifOBP25	.MVPLSFFLTVTVLVFGVNVHG.....FDPMEKFMGM	31
Consensus		
SbifOBP4	EVGAECVEKEKPN.....EDDIGLLIAH.QMPTT	58
SbifOBP11	ELGIKACAGEEKP.....PDDIARMAH.KLPET	58
SbifOBP2	LLHGTCVPATGIS.....EDVVARAQVG.DFDDD	61
SbifOBP3	SLHKTCVSATGIS.....EDVVARAQKG.DFVNE	57
SbifOBP5	QLHSTCVSKTGVS.....EDLILAVNEDKTFADD	59
SbifOBP6	TLHTTCVAETGVD.....EALIKKTNSEKAIPDD	57
SbifOBP7	LVRNTCMNKAAPT.....SEQVDGLQKG.QFIDD	59
SbifOBP16	MVRNVCLPKTKAS.....VEDVDKMHKG.DWDVD	60
SbifOBP28	KNREECIAETKVN.....PELIDRADSG.DFVDD	60
SbifOBP30	VFIRKNCQEEESGAT.....KADMEIIKMK.KLPET	60
SbifOBP26	EVINQCQDEIKLAILSEALQALNIHEDKHTRTKRASFND	80
SbifOBP25	PGVRECISSSGVD.....QEELKKRPGP.DMSPE	59
Consensus	c	
SbifOBP4	HE..GKCVIYCVYKYFNTINEDATINVEGGIEALQPLKEN	96
SbifOBP11	HE..GKCVIYCIYKHYNTVNGDGTINVDAGIKALQPLKEN	96
SbifOBP2	EK..LGCYMNVCVMREAGVLDNDEKFNLELVMDFFSE...	95
SbifOBP3	EE..VGCYMRCSVIVEMGLF.NEGKLDIERAINSVPE...	90
SbifOBP5	EN..LKCYIKCVMQEGGVMDDEGLIDPAAAREIIPE...	93
SbifOBP6	EK..LKCYLKCIMVQSGCMSDDGIIDEEATIAAVPD...	91
SbifOBP7	RN..LQCYIYCIINTYKLRKDNSTFDEGGIKALEAN..A	95
SbifOBP16	HT..AMCYMHCALNMKYLIDKNTLNYSVLIQIKQ...L	95
SbifOBP28	DK..LKCFCKCFYQKAGFVTEAGALLDITAKIPAN...	95
SbifOBP30	KT..GRCFLQCLFNKAKIM.DDGKFNKQGMVMAFVPSTKG	97
SbifOBP26	ERRIAGCLLQCVYRKMDAVNDKGFPTEGLVSLYTEG.IT	119
SbifOBP25	YL....CFLKCTAAVGTLSDEGEIDSSENTQGLPLMLN..	93
Consensus	c c	
SbifOBP4	DEELYEKVAAILKKCTSSL.....TIDGDP CNTG	125
SbifOBP11	DEALYNLIVADFKKCGSI.....SINSDPCETS	125
SbifOBP2	..SIRDNAYPVMKKCG..I.....LVGANLCETA	120
SbifOBP3	..EIKTELAPVIRKCG..V.....LVGANECQTA	115
SbifOBP5	..EYDSHELLLRSCS..S.....KKGSTTCETA	118
SbifOBP6	..EHRKSSEPIIRACG..T.....KVGANPCENA	116
SbifOBP7	PPNIAESGSKSIVNCKDAV.....KTDDKCIAA	124
SbifOBP16	PDRYKESTEKCLDPCKNSA.....VTLDDKCAAA	124
SbifOBP28	..IDKEKALQVIEKQ.....QQGKDACEV	119
SbifOBP30	DASKIKQLKELGDVCEKEIG.....GKRPDNCEGV	127
SbifOBP26	KKDYILATVQAVNVCLNNAQKKILVTPQGLEEHGKTC DIA	159
SbifOBP25	...MPEDTKNEVMECMANVG.....KIETCDDM	118
Consensus	c c	
SbifOBP4	AKLIECTVLEAKAMGLSEMLDM.....	148
SbifOBP11	FNLVNCLVEAKAKGLPKELDFDDI.....	150
SbifOBP2	FLICKCVFEEDPSVYHLP.....	138
SbifOBP3	FLMCKCVFEENPSLYMLA.....	133
SbifOBP5	WLAHKCYAQHP..QYRLL.....	134
SbifOBP6	WLTNKCMEKAPEDIYILI.....	134
SbifOBP7	YEITKCVYDDNPAGYFLP.....	142
SbifOBP16	YEISKCLYFCNPGDYLLP.....	142
SbifOBP28	YLVHKCYFLHTHLPEPKVEESKADGLAPAASDVPSQKESK	159
SbifOBP30	RLVVECVARHGKAYGITFSNSKNTV.....	152
SbifOBP26	YDVFDVSGEIGKYCGQTP.....	178
SbifOBP25	IKMLECAPKPPKP.....	131
Consensus	c	
SbifOBP4	.....	148
SbifOBP11	.....	150
SbifOBP2	.....	138
SbifOBP3	.....	133
SbifOBP5	.....	134
SbifOBP6	.....	134
SbifOBP7	.....	142
SbifOBP16	.....	142
SbifOBP28	NETKTETKSESQTEAKK	176
SbifOBP30	.....	152
SbifOBP26	.....	178
SbifOBP25	.....	131
Consensus		



Minus-C OBP



SbifOBP20	.....	0
SbifOBP21	.....	0
SbifOBP22	MRAFLAIFALYGILVTAEC..	20
SbifOBP27	MVVNVEYIFILTCLLVVLAQ..	21
SbifOBP29	MIGVKYFLMLTTLVVVEPQSI	22
SbifOBP17	MNEFFIICVICFFGAVQA	17
SbifOBP24	MYVTIFVYFTVLTVAQCLS.	19
SbifOBP18	MKTFFVAVLFVVALAAA	16
SbifOBP9	MGNTVAVFIFNKRAQVLIRKMKTALVFLCAA.AGVFAQN.	38
SbifOBP10	.....	0
SbifOBP14	MKVFLVILCVS.LAALANG.	18
SbifOBP15	MKVFAFILCVGYLALLAHG.	19
SbifOBP12	MKSFALVICVIVLATLAYGG	20
Consensus		

SbifOBP20	MEYFRGVHRECGM..AEENSQ....TMLDGEVP	27
SbifOBP21	MEYFKGLHMECGM..AEQYSE....KMFAGQLP	27
SbifOBP22	...SPEELKYFREVNRECGM..AEEVID....RALAGDFP	51
SbifOBP27	..FSSEEVQNLLQYHEECKL..KTNIDYRVLNILTGTFP	57
SbifOBP29	PKISPEEMQALLQYHKDCKL..ESHASDNLAYGTLAGQFP	60
SbifOBP17	AVITEEQKGKLLFENKQCME..ETHVMDIVMKASKGVYT	55
SbifOBP24	...PEQHAKLTAIFIECSQ..TTGINEDQARAAVEAETT	53
SbifOBP18	KPLSDEAKEKMKAINIECAK..DSGIEEGDLLKVLEEAG.	53
SbifOBP9	..LLLVEEQQLHHIHDACQANPATRADHNLHDLNLANLDN	76
SbifOBP10	MLHHIHDACQADPATSVNHELLHNLSNLDN	31
SbifOBP14	..LTEEQKERIRGAYKSCQSDPATSIDLELLKTTRDPSKV	56
SbifOBP15	..ISDEDKQHFRSLNEECQSNPATRLDKEMIEKLRKHEEV	57
SbifOBP12	SLSTVVSRRRITNAHNQCQADPATHVDEEDLKSLKGIQV	60
Consensus	c	

SbifOBP20	DGEQFRKDLLCVSKKVGMDQDEAGNIQVQEMEDQFRRNIPD	67
SbifOBP21	DDEQFKKELLCVSKKMGMLDEAGNLQVQVMEEQFRRNIPD	67
SbifOBP22	DDQQFKNDIFCMFKKIGMDDEGTLEAIETQIRRNVP	91
SbifOBP27	DDPLRRHVFCLSKKFGIQNEAGEIQRRREVREKLEKLVNN	97
SbifOBP29	EDPRLKKHVFCMSKKIGFQDETGKIQRDVFEELQKLVD	100
SbifOBP17	DDPTFKKHIFCVNKKAGFQNAAGDLQIDTMKAKINSIVKD	95
SbifOBP24	DDPKVKEHVLFCFSKKIGFQNEAGDIQLDVMRQKIGEAEPD	93
SbifOBP18	DDSKVKEHMFCEQEKLGIIINADGEIQKDVLEKELVDFFDD	93
SbifOBP9	PQ..VGVHMLCESKGVGLQENNGKLEKEVIRSKISLSIAD	114
SbifOBP10	PQ..VGAHMLCESKGVGLQKPDGELDPEIIRSKISLSVKD	69
SbifOBP14	PN..FGAHSCLVTKKLDLQENGDINKDTLKSRLAEVLD	94
SbifOBP15	DKKQLRAYSLCMTKKLGIQKENGVDKEALKKTLAKAIND	97
SbifOBP12	SG..LGPHMLCMSKKIGLQKSNGDIDRAVFRVRFSEIVRN	98
Consensus	c g	

SbifOBP20	QSKVNDILSNCFVQMNSPEETAYEMTKCIHKIRFS.....	102
SbifOBP21	QSKVNDIVSNCFVQMSSPEETAYEATKCIFKIRFP.....	102
SbifOBP22	ETKVNDILSKCLVQMGTPPEETAYEACKCIHGIKHS.....	126
SbifOBP27	SEKIDEIITKTCIVQKDDPEQTAVDIARCYIETIVVKS...	134
SbifOBP29	NDRVEELIELCSVQHDDPEETAMDMAKCYIKILRNTV...	137
SbifOBP17	EKKTNEFISKALNKDTPENTAFEVAKCFHNISPEKDVLG	135
SbifOBP24	AAMVEEMISKCAVQKATPEDTAFDTSVCLYKMKPV.....	128
SbifOBP18	DAKVEDIITKCAEEKDSPLETAFSLGSCIHQEKGDK....	129
SbifOBP9	PGIVDHLVEECAVPKNTPEKTAINLFMCFDRNGVTYFHEF	154
SbifOBP10	AAKVDRLVKECAIKKRTPEETAVNLFMCLDENGVTYFHEF	109
SbifOBP14	EAKINKTVEDCAVQRATPEETAARLLKCLHDQG..ILRRD	132
SbifOBP15	ETKLNKLVGECGARRDTIGETAEEIMRCFHEHIGRHMREH	137
SbifOBP12	QSKLDDIVEGCAVQKETPEDTAEHIMKCFHQHHPCP....	134
Consensus	c ta c	

SbifOBP20	.....	102
SbifOBP21	.....	102
SbifOBP22	.....	126
SbifOBP27	.....	134
SbifOBP29	.....	137
SbifOBP17	L.....	136
SbifOBP24	.....	128
SbifOBP18	.....	129
SbifOBP9	.....	154
SbifOBP10	.....	109
SbifOBP14	.....	132
SbifOBP15	GEHHDSDHHDD	148
SbifOBP12	.....	134
Consensus		