

OsaTR23	(595)	IPCQENATREDMEIVLPLTGSSQPSKYRNVSSIVNLPS	CGCLLLDCGEGTLGQLKRRE	VSGADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
ZmaTR23	(596)	IPCQENATREDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VNDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
AthTR23	(526)	LPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	LDGADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
AthTR24	(526)	VPCLENLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	LDGADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
MguTR23	(606)	LPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	TSHPE
GmaTR23	(524)	IPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
CsaTR23	(592)	VPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
CclTR23	(557)	LPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
CpaTR23	(553)	APCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
EgrTR23	(582)	LPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
VviTR23	(575)	LPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
ACOTr23	(527)	LPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
ACOTr24	(620)	LPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
SmoTR22	(436)	TAPACISKADMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
SmoTR23	(436)	TAPACISKADMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
PpaTR24	(585)	IPCLCNLRPRDDMEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
OlutR23	(459)	P-EYRKLKPGDVEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
MpuTR23	(597)	TPRKLGRGQVEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
CreTR22	(562)	PSTVASGDRQAEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
VcaTR22	(565)	VPSTVASGDRQAEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
DmeTR21	(446)	--FPDASDYSYPIELPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE
HsaTR22	(471)	--PAPAEKRSQVEIVLPLTGSSQPSKYRNVSSIVNLPS	RCGLLLDCGEGTLGQLKRRE	VGDADAVNRSLCTWISHIHADHHTGLARILALRRLLIC	VPHKE

Motif III

OsaTR23	(701)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[9]	LGSTISAPSKENYSRK	[0]	ASPRDTT---	ATNLKQVHBSGDEVLVSVFVHCQAF
ZmaTR23	(674)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[9]	LETTMAGPQTRNYSRK	[0]	ASPRDTT---	ATNLKQVHBSGDEVLVSVFVHCQAF
AthTR23	(632)	VLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[2]	AEGSLISKSLWSYIYK	[1]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
AthTR24	(668)	VLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[10]	AEGSLISKSLWSYIYK	[1]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
MguTR23	(712)	VLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[12]	ADSLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
GmaTR23	(648)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[22]	VDSLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
CsaTR23	(698)	VLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[30]	TESLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
CclTR23	(663)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[22]	TEAMTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
CpaTR23	(659)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[26]	TQSLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
EgrTR23	(688)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[30]	PDSTLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
VviTR23	(681)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[18]	IDSLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
ACOTr23	(726)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[21]	SETSLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
ACOTr24	(633)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[21]	SETSLTISKSLWSYIYK	[0]	SSPLTSSSALPFTKPKKQVIOGAKGLISFFVPHCQAF	
SmoTR22	(543)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[3]	---	[2]	GYDLATGLDTRKKNDOVLEGLKSLHSFFVPHCQAF	
SmoTR23	(566)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[3]	---	[2]	GYDLATGLDTRKKNDOVLEGLKSLHSFFVPHCQAF	
PpaTR24	(591)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[30]	RIGLVRRYSYNSKTSPPK	[9]	GANLMGDESGDRGRKRTKTSLSLRSKSLHSFFVPHCQAF	
OlutR23	(668)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[0]	---	[0]	---	---
MpuTR23	(705)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[2]	---	[0]	---	---
CreTR22	(664)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[0]	---	[1]	QLPFAVQRVLESTLARTGLKRLPPRGFRFFVPHCQAF	
VcaTR22	(668)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[0]	---	[1]	VGARGMSVMPKAAVAAEAKERLGLAPFFVPHCQAF	
DmeTR21	(547)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[0]	---	[0]	---	---
HsaTR22	(576)	LLVVGPRPRERFANAYSLTEDLDMCFDRCNLPKSTAEFLSD	[1]	---	[0]	---	---

Motif IV

HEAT

HST

Motif V

OsaTR23	(808)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
ZmaTR23	(781)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
AthTR23	(736)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
AthTR24	(781)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
MguTR23	(826)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
GmaTR23	(772)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
CsaTR23	(830)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
CclTR23	(787)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
CpaTR23	(787)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
EgrTR23	(820)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
VviTR23	(801)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
ACOTr23	(849)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
ACOTr24	(702)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
SmoTR22	(646)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
SmoTR23	(675)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
PpaTR24	(832)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
OlutR23	(642)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
MpuTR23	(791)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
CreTR22	(744)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
VcaTR22	(615)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
DmeTR21	(612)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS
HsaTR22	(650)	GVVLKASRNVSSAKVPCWKVYSGDTRCPCLVDSRQATVLIHEATFED	SMKDEALAKNHSTKEALVGSAGAYRILLTHFSORYPKIE	VFEVDVHKCTAFDIMS

OsaTR23	(920)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
ZmaTR23	(893)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
AthTR23	(848)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
AthTR24	(893)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
MguTR23	(938)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
GmaTR23	(884)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
CsaTR23	(942)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
CclTR23	(899)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
CpaTR23	(899)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
EgrTR23	(932)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
VviTR23	(913)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
ACOTr23	(961)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
ACOTr24	(812)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
SmoTR22	(749)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
SmoTR23	(784)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
PpaTR24	(944)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
OlutR23	(744)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
MpuTR23	(896)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
CreTR22	(846)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
VcaTR22	(847)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
DmeTR21	(720)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		
HsaTR22	(752)	VNLV-DLPLVLPKPLKLLRDEIVVDSDEIQAVM		