

Multiple sequence alignment (MSA) of AVR_{A6} subfamily members

	1	10	20	30	40
BgAVE_4843	..N.YV.F.R.C.Y.G.E.I.I.T.P.D.Q.I.R.	..K.A.F.S.T.F.F.R.R.D.V.P.G.F.P.S.F.A.R.D.K.S.F.Y.S.N.E.P.I.N.I.			
BgLOL_1493	..D.L.R.Y.E.C.S.L.G.K.T.F.T.M.V.K.L.L.T.G.F.L.	..Y.D.L.E.L.E.S.H.T.N.I.L.S.D.P.K.R.E.V.V.E.T.T.R.R.Y.S.E.M.V.G.S.			
Bgtv316_251	..T.Q.V.Y.T.C.Y.R.S.Q.P.L.S.K.A.L.I.D.D.L.A.R..	..Y.A.T.A.D.Q.V.Y.E.N.D.P.G.Y.G.D.R.Q.V.H.K.T.H.R.F.S.K.N.K.D.A.			
Bg_DAC_2147	..A.S.I.L.N.S.Y.F.V.C.G.Q.E.I.I.L.L.S.S.E.I.H.N.C.E.S..	..V.Y.F.Y.S.N.A.E.A.D.D.P.T.G.P.N.G.E.Q.F.S.A.F.R.F.T.K.K.A.Y.N.			
Bgtv316_8331	..E.E.N.Y.E.C.K.K.S.D.Q.T.F.C.Y.S.C.I.S.S.L.G.L..	..S.D.F.N.S.Y.I.E.K.G.E.P.L.F.V.G.G.E.I.Y.G.S.H.Q.F.T.I.N.S.L.D.			
Bg_DAC_5942	..E.P.Y.Y.K.C.K.C.N.N.Q.N.F.Y.L.S.T.V.K.A.K.A.E..	..Y.A.T.A.T.L.S.E.N.I.R.P.H.V.P.D.G.E.T.R.N.S.Y.M.F.Q.V.D.S.S.E.			
Bg_SECS1459_2519	..L.F.E.K.C.K.C.N.S.G.E.I.V.S.E.N.I.V.R.S.N.G.G..	..A.A.S.F.C.E.C.R.E.G.D.P.A.P.P.A.G.E.W.F.G.V.K.R.F.V.S.Q.A.N.D.G.			
Bg_DAC_7322	..L.F.E.K.C.K.C.N.S.G.E.I.V.S.E.N.I.V.R.S.N.G.G..	..A.A.S.F.Y.E.C.R.E.G.D.P.A.P.P.A.G.E.W.F.G.V.K.R.F.V.S.Q.A.N.D.G.			
BLGH_07092	..N.L.Y.Y.K.C.K.C.D.V.G.D.S.V.N.L.E.E.V.L.N.M.D.C..	..D.A.D.L.T.E.N.R.D.E.H.P.R.I.P.T.G.N.H.T.S.L.I.F.S.P.K.E.L.V.E.I			
BLGH_03262	..E.G.Y.Y.K.C.K.C.P.S.D.N.K.L.K.E.S.E.I.M.E.Y.Q.H..	..L.A.S.P.D.N.N.K.S.S.H.P.K.P.A.G.Q.T.C.S.S.Y.T.L.S.S.N.P.Y.G.I.			
Bg_DAC_7757	..M.G.H.F.R.C.G.Q.G.D.P.L.S.V.G.E.I.W.D.I.A.N.D.D.G.K.F.L.T.E.N.R.E.E.H.P.A.T..	..P.T.G.E.S.P.I.A.Y.F.F.T.K.G.L.G.Q.G.			
Bgtv316_434	..D.R.H.Y.T.C.V.H.G.R.I.V.S.E.K.E.V.L.E.E.A.G..	..M.A.Y.D.T.V.P.Y.H.D.H.P.P.T.P.T.G.E.T.Y.K.S.I.L.F.S.R.F.L.N.D.N.			
BLGH_00697	..N.R.Y.Y.K.C.K.C.E.I.S.D.P.V.S.E.A.D.V.I.K.M.V.S..	..D.R.T.L.E.K.N.A.D.I.H.P.K.V.P.T.G.E.S.H.K.S.Y.M.F.M.K.R.T.Y.A.N.			
BLGH_00698	..N.R.Q.Y.Y.K.C.K.C.D.D.G.D.P.V.G.V.E.E.A.Q.S.M.E.D..	..N.S.A.F.V.E.N.I.D.K.H.P.N.V.P.T.E.E.S.H.K.S.Y.L.F.A.Q.R.T.Y.A.N.			
BLGH_00700	..N.Q.H.Y.Y.K.C.K.C.D.D.G.D.P.V.G.V.E.E.A.Q.S.M.E.D..	..D.C.A.S.T.K.N.L.D.E.H.P.A.I.P.T.G.E.S.H.K.S.Y.L.F.A.R.R.V.Y.L.N.			
Bgtv316_451	..N.R.H.Y.Y.K.C.K.C.D.R.G.D.P.I.D.E.V.V.A.L.R.M.N..	..N.A.F.M.I.E.H.S.H.E.H.P.A.I.P.T.G.E.P.Q.W.S.F.F.F.T.K.S.L.N.A.H.			
Bgtv316_450	..N.R.H.Y.Y.K.C.K.C.D.R.G.D.P.I.D.E.V.V.A.L.R.T.M.N..	..N.A.F.M.I.E.H.S.H.E.H.P.A.I.P.T.G.E.P.Q.W.S.F.F.F.T.K.S.L.N.A.H.			
Bg_DAC_368	..N.L.Q.Y.Y.K.C.K.C.E.I.G.D.P.I.T.E.S.Q.V.L.E.T.V.N..	..K.S.F.L.I.D.N.S.P.Q.H.P.A.I.P.T.T.E.P.H.K.T.Y.F.S.T.R.P.W.S.G.S.			
Bgtv316_445	..N.R.E.Y.Y.K.C.K.C.E.G.D.P.L.L.E.S.Q.V.F.A.M.E.T..	..E.R.F.T.I.P.N.S.H.E.H.P.A.I.P.T.L.E.P.H.K.T.Y.F.S.M.R.S.I.N.P.Y.			
Bgtv316_452	..Y.P.H.Y.Q.C.E.H.G.E.L.L.S.V.Q.E.I.I.D.L.S.V..	..N.V.K.T.R.H.N.Q.D.D.H.P.A.I.P.T.S.G.Q.P.C.K.S.Y.T.I.S.G.P.A.G.P.Y.			
Bg_SECS1459_1061	..Y.P.H.Y.Q.C.E.H.G.E.L.L.S.V.Q.E.I.I.D.L.S.V..	..N.V.K.T.R.H.N.Q.D.D.H.P.A.I.P.T.S.G.Q.P.C.K.S.Y.T.I.S.G.P.A.G.P.Y.			
BLGH_05881	..N.L.H.Y.Y.K.C.K.C.D.D.G.D.P.V.G.V.E.E.A.Q.S.M.E.D..	..G.H.S.E.R.Y.N.R.N.S.D.P.T.I.P.T.G.E.N.Y.T.S.A.L.F.S.K.P.L.D.K.T.			
BLGH_05875	..S.K.Q.Y.Y.K.C.K.C.P.R.G.D.P.I.S.K.E.D.V.L.R.Y.S.K..	..G.H.S.E.S.F.N.L.D.E.Y.P.L.T.P.A.G.K.K.Y.S.S.T.Y.F.T.S.P.L.G.A.P.			
BLGH_05877	..S.L.Q.Y.Y.K.C.K.C.D.R.G.D.P.L.S.L.E.D.V.L.K.S.A.T..	..G.K.P.E.N.K.F.R.K.Q.H.P.A.I.P.T.G.D.K.Y.K.S.S.I.Y.F.T.K.S.V.D.S.N.			
BLGH_05876	..S.L.Q.Y.Y.K.C.K.C.E.I.G.D.I.V.S.M.E.I.V.L.R.L.S.S..	..G.H.N.E.S.H.N.R.D.G.N.V.P.A.I.P.T.R.E.K.Y.T.S.T.S.F.T.K.K.L.S.A.I.			
BLGH_05882	..S.I.Q.Y.Y.K.C.K.C.P.R.G.D.V.V.S.M.D.M.V.L.H.Y.S.S..	..D.H.N.E.R.Y.N.R.D.E.Y.P.L.I.P.T.G.E.N.Y.T.S.T.T.F.R.N.E.R.D.S.M.			
BgLOL_2299	..D.R.Y.Y.K.C.K.C.K.R.G.L.D.I.S.E.K.E.I.I.S.K.A.N..	..L.A.R.I.E.D.N.D.P.K.G.P.S.I.P.T.G.E.P.Y.I.S.L.I.F.L.V.Q.A.T.P.G.			
Bgtv316_449	..K.R.H.Y.Y.K.C.K.C.D.H.G.R.P.F.S.E.E.Y.I.I.S.K.A.R..	..Y.A.S.A.D.D.N.R.Y.G.N.L.A.V.P.T.G.E.S.Y.I.S.L.F.F.A.N.P.L.L.K.N.			
Bg_DAC_4448	..K.R.H.Y.Y.K.C.K.C.D.H.G.R.P.F.S.E.E.Y.I.I.S.K.A.R..	..Y.A.S.A.D.D.N.C.Y.G.N.L.A.V.P.T.G.E.S.Y.I.S.L.F.F.A.N.P.L.L.K.N.			
BgTRIT_T1-20_191	..N.R.Q.Y.Y.K.C.K.C.P.S.G.D.T.F.E.E.A.T.I.M.D.L.A.N..	..K.A.R.E.E.N.N.R.D.S.H.P.G.I.P.T.H.E.S.C.K.S.Y.F.F.T.R.K.I.P.G.D.			
Bg_DAC_3411	..N.R.Q.Y.Y.K.C.K.C.P.S.G.D.T.F.E.E.A.T.I.M.D.L.A.N..	..K.A.R.E.E.N.N.R.D.S.H.P.G.I.P.T.H.E.S.C.K.S.H.F.F.T.R.K.I.P.G.D.			
Bgtv316_447	..N.G.Q.Y.Y.K.C.K.C.P.R.G.D.P.F.T.M.T.R.I.I.L.E.M.A.Q..	..Q.A.S.I.D.D.N.L.P.S.N.P.A.I.P.T.G.E.S.C.T.S.Y.C.F.S.G.P.S.R.N.D.			
BgTRIT_T1-20_7341	..N.G.Q.Y.Y.K.C.K.C.P.R.G.D.P.F.T.M.T.R.I.I.L.E.M.A.Q..	..Q.A.S.I.D.D.N.L.P.S.N.P.A.I.P.T.G.E.S.C.T.S.Y.C.F.S.G.P.S.R.N.D.			
consensus>70	.....%..C..g.d.....i.....	.....p..p..g.e.....s..f.....			

	50	60	70	80	90
BgAVE_4843	..F.P.I.L.K.D.G.E..T.T.I.E.D.K.F.N.G.P.Y.L.I.W.C.R.D.D.L.D.W.G.V.Y.F.L.H.T.Y.G.Y.E.S.C.E.K.N.T.A..Y.N.G.V				
BgLOL_1493	.....A.E.N.K.D.Y.K.I.Q.L.T.R.K.Y.P.Y.Y.R.I.Y.E.W.E.N.R.E.W.K.L.C.P.F.R.E.....				
Bgtv316_251	.....T.G.S.V.D.Y.L.I.Q.I.V.G.P.Q.N.T.I.M.V.F.E.Y.S.S.H.S.W.L.E.C.P.L.S.....				
Bg_DAC_2147	.....G.G.I.I.D.Y.L.I.Q.I.S.N.E.H.P.Y.N.R.....				
Bgtv316_8331	..G.T.S.L.K.Y.L.I.Q.S.I.G.V.D.P.S.Y.Q.L.F.E.A.S.G.S.L.W.K.I.C.T.F.K.N.T.....				
Bg_DAC_5942	..F.G.A.N.W.Y.L.V.Q.Y.K.G.K.P.R.S.Y.F.F.Y.E.L.G.E.P.D.W.E.E.C.E.Y.Y.A.A..				
Bg_SECS1459_2519	..S.W.S.P.H.S.F.E.L.A.F.A.N.H.N.F.R.P.P.G.F.I.R.Y.L.V.Q.H.L.N.A.Y.P.Y.D.I.L.F.E.Q.T.T.T.G.W.E.E.C.T.M.K.I.V.L.D.R.G.R.A				
Bg_DAC_7322	..S.W.S.P.H.S.F.E.L.A.F.A.N.H.N.F.R.P.P.G.F.I.R.Y.L.V.Q.H.L.N.A.Y.P.Y.D.I.L.F.E.Q.T.T.T.G.W.E.E.C.T.M.K.I.V.L.D.R.G.R.A				
BLGH_07092	..V.S.Y.P.A.....P.T.T.L.V.K.L.T.V.P.P.R.T.R.F.S.L.L.T.T.S.L.W.V.P.....				
BLGH_03262	..G.Y.F.P.H.F.S.D.I.F.L.I.N.R.P.F.H.N.....				
Bg_DAC_7757	..A.P.Q.Q.A.S.Y.L.I.Q.V.Y.G.D.P.A.Y.Y.Q.V.S.Q.Y.I.D.W.A.W.R.I.C.R.F.V.H.I.R.....				
Bgtv316_434	..Q.Q.Y.I.A.S.Y.L.V.Q.V.Y.G.D.P.S.Q.K.I.Q.L.S.V.F.S.E.K.K.W.K.I.C.S.F.V.E.S..				
BLGH_00697	..R.R.P.R.I.T.A.Y.L.V.Q.V.Y.G.D.P.K.E.Y.Q.L.S.L.H.A.G.G.R.W.H.L.C.S.L.E.D.E.S..				
BLGH_00698	..I.P.G.L.S.A.Y.L.L.Q.V.Y.G.D.P.K.Y.Q.L.S.Q.Y.S.D.M.E.W.K.V.C.S.L.Q.D.I.R..				
BLGH_00700	..K.P.G.I.S.I.Y.M.I.Q.V.Y.G.D.P.K.K.Y.Q.L.S.R.H.V.D.K.E.W.I.V.C.S.L.Q.D.I.S..				
Bgtv316_451	..R.L.G.I.A.C.Y.L.L.Q.V.Y.G.D.P.P.N.Y.Q.L.S.Q.S.F.K.K.E.W.R.L.C.S.L.E.D.K.S..				
Bgtv316_450	..R.L.G.I.A.C.Y.L.L.Q.V.Y.G.D.P.P.Q.Y.Q.L.F.Q.S.F.K.K.E.W.R.R.C.S.L.E.D.K.S..				
Bg_DAC_368	..E.S.G.I.A.S.F.L.I.Q.V.Y.G.D.P.P.K.Y.Q.V.Q.V.Q.G.V.A.R.G.W.R.L.C.T.L.E.N.G.N..				
Bgtv316_445	..E.P.G.V.S.S.Y.L.V.Q.V.Y.G.E.P.P.K.Y.Q.V.S.Q.M.S.T.E.G.W.K.L.C.T.....				
Bgtv316_452	..D.E.T.L.Y.Y.L.I.Q.V.Y.G.Q.O.P.K.Y.Q.F.S.Q.K.T.E.N.G.W.K.E.C.S.I.I.N.L.V..				
Bg_SECS1459_1061	..G.W.F.S.Q.L.S.D.I.C.L.I.N.C.S.S.L.D.E.T.L.L.H.Y.L.I.Q.V.Y.G.O.P.K.I.Q.F.S.Q.K.T.E.N.G.W.K.E.C.S.I.I.N.L.V..				
BLGH_05881	..V.F.E.V.S.G.Y.I.I.Q.V.Y.G.N.P.K.Y.Q.R.L.S.V.F.V.D.G.R.Y.H.V.C.P.L.E.E.M.Q..				
BLGH_05875	..L.T.Y.A.A.A.Y.V.I.Q.V.Y.D.N.P.P.Q.Y.Q.L.A.Q.Y.N.M.G.V.W.T.V.C.T.L.E.E.S.Q..				
BLGH_05877	..D.I.Y.H.A.A.F.L.L.Q.V.Y.G.D.P.P.Q.Y.Q.L.S.Q.Q.Y.S.E.E.G.W.G.L.C.D.V.E.E.I.H..				
BLGH_05876	..D.T.R.H.V.G.Y.L.I.Q.V.Y.G.D.P.P.Q.Y.Q.L.S.Q.Q.Y.S.E.R.G.W.G.V.C.A.L.E.E.S.H..				
BLGH_05882	..E.I.F.H.I.D.Y.L.I.Q.V.Y.G.D.P.P.Q.Y.Q.L.S.Q.Q.L.S.N.G.I.W.N.V.C.S.M.E.K.S.Y.R.Y..				
BgLOL_2299	..S.I.I.R.A.A.N.L.L.Q.V.Y.G.E.P.K.K.Y.Q.L.S.Q.N.Y.M.G.V.W.E.L.C.T.L.V.D.N.D.V..				
Bgtv316_449	..S.L.L.D.L.G.C.Y.L.I.Q.V.Y.G.Q.P.P.K.Y.Q.F.S.Q.Y.V.D.N.K.W.K.L.C.T.L.E.S.R.S..				
Bg_DAC_4448	..S.L.L.D.L.D.L.G.C.Y.L.I.Q.V.Y.G.Q.P.P.K.Y.Q.F.S.Q.Y.V.D.H.K.W.K.L.C.T.L.E.S.R.S..				
Bgtv316_448	..D.D.S.K.Q.Y.A.Y.L.L.Q.V.Y.G.Q.P.P.T.Y.Q.F.S.Q.Q.F.N.Y.G.W.Q.Q.C.S.L.E.N.G.S..				
BgTRIT_T1-20_191	..D.D.S.K.Q.Y.A.Y.L.L.Q.V.Y.G.Q.P.P.T.Y.Q.F.S.Q.Q.F.N.Y.G.W.Q.Q.C.S.L.E.N.G.S..				
Bg_DAC_3411	..D.D.S.R.Q.Y.A.Y.L.L.Q.V.Y.G.Q.P.P.T.Y.Q.F.S.Q.Q.F.N.Y.G.W.Q.Q.C.S.L.E.N.G.S..				
Bgtv316_447	..G.G.T.E.T.Y.G.H.L.L.Q.V.Y.G.Q.P.P.K.Y.Q.F.S.Q.H.V.G.G.K.W.E.L.C.T.F.E.N.V.S..				
BgTRIT_T1-20_7341	..G.G.T.E.T.Y.G.H.L.L.Q.V.Y.G.Q.P.P.K.Y.Q.F.S.Q.H.V.G.G.K.W.E.L.C.T.F.E.N..				
consensus>70	.....y.l.q.v.g.d.....q.....w.c.....				

100

	TF GQLMNG
BgAVE_4843	.
BgLOL_1493	.
Bgtv316_251	.
Bg_DAC_2147	.
Bgtv316_8331	.
Bg_DAC_5942	.
Bg_SECS1459_2519	P Y.
Bg_DAC_7322	P Y.
BLGH_07092	.
BLGH_03262	.
Bg_DAC_7757	.
Bgtv316_434	.
BLGH_00697	.
BLGH_00698	.
BLGH_00700	.
Bgtv316_451	.
Bgtv316_450	.
Bg_DAC_368	.
Bgtv316_445	.
Bgtv316_452	.
Bg_SECS1459_1061	.
BLGH_05881	.
BLGH_05875	.
BLGH_05877	.
BLGH_05876	.
BLGH_05882	.
BgLOL_2299	.
Bgtv316_449	.
Bg_DAC_4448	.
BgTRIT_T1-20_191	.
Bg_DAC_3411	.
Bgtv316_447	.
BgTRIT_T1-20_7341	.
<i>consensus>70</i>	.

Multiple sequence alignment (MSA) of AVR_{A7} subfamily members

	1	10	20	30	40	50	60
Bg_DAC_7352	MSRPTRPFLSPVPVPSQDFSF	R	C	PNGMIYT	KDH	I	MQVVQQTASQIMG
BgTRIT_T1-20_2761	Y	H	YQCEHGELF	S	QV	EQYPLRLIQ
Bg_SECS1459_3368	NREY	K	ESGDPLLE	ESQV	FAMETERFTI	PNSHEHPAIP
BgTRIT_T1-20_5798	SLQY	R	DRGDPLS	LEDV	LKSATGK	PENKF
Bgtv316_6193	NDLNLY	LSAID	DHHERRP	DFYSE	AQP GDP
Bgtv316_8282	DSF	L	CRGRKLY	LSSID	IDRHEKPHLYSA	AQDGYPLGPNGE
BLGH_06963	SKLEPY	L	IEGRRIN	LSSID	.....	.....
Bg_DAC_4561	F	L	SEDCKRIF	LSAID	DHHENPEFYLD	AEHDDPLGP
BLGH_07048	F	L	SEDCKRIF	LSAID	DHYHENPEFYLD	AEHDDPLGP
BLGH_05403	F	L	SEDCKRIF	LSAID	DHHENPEFYLD	AEHDDPLGP
BLGH_07006	DGY	H	SYGKVFP	MSEI	RHKLEFGNFED	ARDTDP
Bg_DAC_226	DNGRPQF	F	CRMGIHVH	LSDI	YRFEDV	DYYKKDA
Bg_DAC_2147	ADPF	C	SMNTAVS	FSGI	IFYEQSHEY	LDADEPGDP
Bg_SECS1459_7718	ADPY	F	SMRTAIS	FSGI	IFYEQSHEY	LDADEPGDP
Bg_SECS1459_2049	DGHKSHF	Y	CDPGQS	V	IEDIERDEG	SYYTHA
Bgtv316_8324	DGHKSHF	Y	CDPGQS	V	IEDIERDEG	SYYTHA
BLGH_07087	SKLDPY	F	SMGQI	IY	ISVI	HRKEDKNYYRD
Bgtv316_260	DGHPDAH	F	SQDQHKI	IY	ISEI	HQQENRKYYTA
Bgtv316_8333	AFGPNAH	F	SQDQHKI	IY	ISEI	HQQENRKYYTA
Bg_SECS1459_1061	AFGPNAH	F	SQDQHKI	IY	ISEI	HQQENRKYYTA
BLGH_04763	EDY	F	SHDQLFM	MSFL	EYKAEDY	DYLKNA
BgTRIT_T1-20_4719	GPY	F	TQNQEFS	LAEI	LQKQISFYKVMT	A
BLGH_07086	VGY	F	SHDERFS	LAYI	QHKDSQCEARH	A
Bgtv316_8313	DSY	F	THNQNFN	LEQ	LKSGSKSLKKSKV	MPGDPLGP
BgLOL_5114	DSY	F	THNQNFN	LEQ	RSGSKSLFKSKV	MPGDPLGP
Bg_DAC_4110	GPH	F	SNGQKFK	L	LDLQDKSPSFLESNA	RDGDPLHP
Bgtv316_8310	EPH	F	SYNEKIS	LEG	KHDKSFCDVARA	KGDDPLGP
BgTRIT_T1-20_7515	GPY	F	VYDQF	S	LAKEI	KRKKSSYTVTN
BLGH_06991	EKY	F	TQNKIFT	MAEL	QDNLK	TVGDPLDSNG
BgAVE_3936	EKY	F	SYDQKFT	LAYI	EMHKSHCLVSS	NFYEV
Bgtv316_8319	EPY	F	TQNTIFT	MAEL	QQRDKVYFLETNA	A
BLGH_07004	EPY	F	DGGTRVY	I	STLQDV	KHMFKRA
Bgtv316_2696	EAY	F	DIENRITV	SEL	NRNTKIFDDA	RHGDPLGP
Bgtv316_4514	EPY	F	SEDEHF	V	SEAEKER	VYCHESNA
BLGH_01226	EKY	F	SEGHHT	I	SEAEENER	KFCHELN
Bgtv316_2692	EPY	F	SEGHHT	I	SEAEENER	KFCHVKN
BLGH_05877	KPY	F	SEGGKKFT	I	SECEADRAD	CHENN
Bg_SECS1459_7232	ASY	F	SGDQNFA	ISAL	DRLIHYCDVNIA	A
BgTRIT_T1-20_3173	ASY	F	SEDQNFA	ISAL	DRLIHYCDVNIA	A
BgAVE_6379	ASY	F	SEDQNFA	ISAL	DRLIHYCDVNIA	A
Bg_DAC_4813	VPH	F	GGVYTVS	IRQI	ESSMNE	SGYQRT
Bgtv316_8302	VPH	F	GGVYTVS	IRQI	ESSMNE	SGYQRI
Bg_DAC_3070	DPH	F	SHDKKFA	LSQI	QFNHYDIFQDP	HPGEPEGPDGETY
BLGH_06960	VPH	F	VGVGNFI	ARMI	ENCLKYSAKRRA	EPDDP
Bgtv316_8321	VPH	F	VGVGNFI	ARMI	ENCLKYSAKRRA	EPDDP
Bg_DAC_4560	GPH	F	GCHVIAFT	LIGL	LENFSNSGFWEA	ESDDP
Bgtv316_8308	EPH	F	SGVIPFT	LARL	LENFRKHDFSE	KPGDPRGP
Bg_SECS1459_2788	EPH	F	SGVIPFT	LARL	LENFRKHDFSE	KPGDPRGP
Bg_DAC_4657	RPH	F	GKVI	FT	LRKL	ISIEEDDGFTMA
Bg_DAC_4305	RPH	F	GKVI	FT	LRKL	ISIEEDDGFTMA
BLGH_04764	DPH	F	CGNFIGT	LREL	ISCKGHHGGFLAA	ADPKDPIGSNGEEY
BLGH_04765	DPH	F	GDFIGFT	LSEL	TSRKGYDGFVT	EPGEPEGKPN
Bgtv316_4510	VIVL	D	GEGAKFP	TE	INEY	LKLAGPRGM
Bgtv316_445	AEMY	D	GNGNARFT	TASI	MEYTSLATAGGK	STSDPTFSGEHIK
Bgtv316_8329	LEF	F	GNGNARPY	V	DATAVG	FASFDPTRIQ
Bgtv316_253	AEY	E	WDGEKFPAEQI	THLASRATVGRK	ISNGP	DVPYQONH
Bg_DAC_519	YV	L	CATGKEFDNGLI	EYEYASKAQFSLH	RIGYPIG	PDGE
BgTRIT_T1-20_367	NL	L	ATGDMFYV	SWI	YELAKAEHRFW	SPDHPLGPNG
BLGH_07049	IKRY	Y	CDPGPKFE	YSRI	HNFGSITRKS	QKGDPMQSG
BgLOL_6292	DLV	H	CVSGETFE	LEEAAQDYASKATLDQ	V	LPSDPPVNSAQIS
Bg_DAC_2293	DTVL	H	GSSEI	FE	LEEAAEDYASKATPDE	V
Bgtv316_8331	KIH	Y	CVSGKILS	VSAI	QKYKDITSF	RPNDPSG
Bgtv316_8180	LMTY	E	CVSKNTIP	IATI	EKYEKKATVEKA	KGEGDPEV
BLGH_07084	EENY	E	KSDQTFCS	YSCI	SSLGLSDFNSYI	KGEGEP
BLGH_07005	LDHY	R	ESKQLFDY	SVI	CGYAEQASFQSI	QGGDPPFFVSG
Bg_SECS1459_3091	LQY	E	ESSRVFGYQV	I	ISSYAKSASPDI	TARDP
BgTRIT_T1-20_3159	LQY	E	ESSRVFGYQV	I	ISSYAKSASPDI	TARDP
Bgtv316_8311	LHN	F	ESSKVSA	YSVI	IEYAQSATYEQI	QDGDPPHFAGG
BgTRIT_T1-20_996	LHY	F	NSRRIFAY	SVI	IVGTYTDSATYEQI	QAGDPPHFAGG
BLGH_05395	RRY	L	NSGEIFPFSQI	REYGM	DASLDFT	REGDPPDPTGEWF
Bgtv316_5533	RRY	L	NSGEIFPFSQI	REYGM	DASLDFT	REGDPPDPTGEWF
BgTRIT_T1-20_2822	LFQF	N	ISGESLDE	EHLV	RSDGEGSSPDNV	REDDPPAPSGEWY
consensus>70	f	c	.....	dp	..p..ge..	.

	70	80	90
Bg_DAC_7352	PRY SVNG..N.....VWYHPIPGQ.QH.....	VQDFVVFNNTDYEVVG	
BgTRIT_T1-20_2761	KSYTISGPAGP.....NGWFSQLSDICLINCSLDETLLHYLILQVYQGPPKIQF		
Bg_SECS1459_3368	KTYFSMRSLSNP.....	YEPGVSSYLVQVYGEPPKYQV	
BgTRIT_T1-20_5798	SSIYFTKSVDS.....	NDIYHAAFLLQVYGDPPQYQL	
Bgtv316_6193	TAYRHTARV.....NG.VD.....	VLIILQLSYEFPYNRV	
Bgtv316_8282	PAFLHEIIGN.....DG.GP.....	MMTLVQLTPERPFPNRV	
BLGH_06963	RAYRYPVIGN.....GG.VT.....	IMTLIQLQEYDADPYNRV	
Bg_DAC_4561	SAYRYSVIGN.....DG.ST.....	IMTLIQLQATSESPFNRV	
BLGH_07048	SAYRYSVIGN.....DG.ST.....	IMTLIQLQATYESPFPNRV	
BLGH_05403	SAYRYSVIGN.....DG.ST.....	IMTLIQLQATYESPFPNRV	
BLGH_07006	FGMDMMPV.....PE.VT.....	VTLIQLIIYKAPYYRF	
Bg_DAC_226	RARRLFKRTY.....GG.SY.....	GYILLIQLATDEYPFNRV	
Bg_DAC_2147	PARRFTRVRR.....DG.SD.....	VLLILQLDDEYPLRRA	
Bg_SECS1459_7718	SAYRFTKVRT.....DG.SE.....	VLLILQLSTNEYPLCRV	
Bg_SECS1459_2049	MAHRSAWVGN.....NG.ET.....	VPLYLIQAYFEYPYYRV	
Bgtv316_8324	MAHRSAWVGN.....NG.ET.....	VPLYLIQAYFEYPYYRV	
BLGH_07087	QAHIFKKCVV.....NG.EE.....	IRYLVQASNEHPFTRV	
Bgtv316_260	SAHRFTREGF.....NG.ET.....	IRYLIQPAIEYPHNRV	
Bgtv316_8333	SAHRFREGI.....NG.ET.....	IRYLIQPAAMEYPHNRV	
Bg_SECS1459_1061	KTVRVTRMP.....RD.FF.....	VKYLILQFIDETSTYRV	
BLGH_04763	PTRQFSMIPR.....PG.YK.....	LSIPPLLPLPTTILLGE	
BgTRIT_T1-20_4719	RTTHIMTPVR.....VG.FF.....	VYIIVQVIDDSPTYRL	
BLGH_07086	PTNRTTLILP.....EG.VQ.....	VSYIFQLIGGPQTFRV	
Bgtv316_8313	PTNRTTLILP.....EG.VQ.....	VSYIFQLIGGPQTFRV	
BgLOL_5114	PTHRLTJKSR.....GG.QD.....	TEYLFQLIDGKPTFHV	
Bg_DAC_4110	RTRRYNLIPN.....SG.YT.....	TAYIVQLIDDTPTFRV	
Bgtv316_8310	PTDRFTRKAW.....RG.IK.....	TEYLFQLIDEEPTFRV	
BgTRIT_T1-20_7515	PSRQYSTVPI.....GG.YT.....	TTYLFQLIDEAAPTFNV	
BLGH_06991	PANRYRMIPK.....DG.YT.....	TTYLFQLVDEAAPTFRV	
BgAVE_3936	PTHRYSMIPI.....RG.YT.....	TTYLFQLVDEAAPTFRV	
Bgtv316_8319	MAILYDLAVG.....PP.DS.....	TAHFVQKIPEDPFFRV	
BLGH_07004	IAWRHSFVT.....EG.YI.....	IENLVQKIPPEAPFIKV	
Bgtv316_2696	KTIYRFRFTN.....YG.GS.....	IAYILQLIDIAAPFFRV	
Bgtv316_4514	KTSRSRRYRN.....DG.SS.....	IAYILQLIDLAPFFRV	
BLGH_01226	KTSRFRRYRN.....DG.SS.....	IAYILQLIDLAPFFRV	
Bgtv316_2692	KTYGLRQFTP.....KG.SS.....	VGYILQLIDIAAPFFRV	
BLGH_05877	KTNRWQFTP.....RG.SS.....	VEYILQLIDIAAPFFRI	
Bg_SECS1459_7232	KTNRWQFTP.....RG.SS.....	VEYILQLIDIAAPFFRI	
BgTRIT_T1-20_3173	KTYRWQFTP.....RG.SS.....	VEYILQLIDIAAPFFRI	
BgAVE_6379	LSCRFNAAAA.....GG.DD.....	SFCMAQRIDEHPNYRV	
Bg_DAC_4813	LSCRFNAVAG.....GG.DD.....	SFCMAQRIDEHPNYRV	
Bgtv316_8302	KSWWTETYR.....AG.SS.....	VSYLVQLINEVPFTFRV	
Bg_DAC_3070	SSHPRISATPE.....GG.VE.....	TPYLVQEIDEEPFIQV	
BLGH_06960	WSHRISATPE.....GG.VE.....	TPYLVQEIDEEPFIQV	
Bgtv316_8321	WSHRISATPE.....GG.VE.....	TPYLVQEIDEEPFIQV	
Bg_DAC_4560	LSHRYRALPS.....GG.K.....	DTCYLAQLINELYPFFRV	
Bgtv316_8308	LSYQFGATPP.....GR.YS.....	TSYLAQIIDEEYPFFRA	
Bg_SECS1459_2788	LSYQFGATPP.....VS.YS..FDIAITKYASRCSDSTS...YLAQIIDEEYPFFRA		
Bg_DAC_4657	LSHRYITVPE.....GG.FS.....	TTYLAQVIDEEPYFRA	
Bg_DAC_4305	LSHRYITVPE.....GG.FSSSFETFTKHTSPCPDSTTYLAQVIDEEPYFRA		
BLGH_04764	LSHRYSAIRY.....GI.YS.....	FSYLAQPIDNEYPYFRA	
BLGH_04765	LSHRYRAMRS.....II.YT.....	TSYLAQPIDNEYPYFRA	
Bgtv316_4510	GAYRMTV.....EIRG.NP.....	RTFLIQRIDEDIYPYRF	
Bgtv316_445	GAFRFKRFSPTFHFAFANHPCLRA.VD.....	RFFLVQSLLQYPFTTRL	
Bgtv316_8329	GVYRFQDTVQ.....GN.TK.....	RSFMMQSISRSPHFRL	
Bgtv316_253	KTRKFTRV.P.....SG.VI.....	TTYLYIQLVDKVDDSSIRL	
Bg_DAC_519	KAYEFDIPLA.....DTRDT.....	DYLYLVQVCGGMEGHRL	
BgTRIT_T1-20_367	KAYEFTDPSA.....YTGTG.....	HHHLVQVCVGIEYFIL	
BLGH_07049	PTYRFSTVY.....HE.YT.....	YDYIVQEVDEVDSYRL	
BgLOL_6292	GAHHTRKTR.....QN.EN.....	GFLYLVQYVGTLRLIQL	
Bg_DAC_2293	GAYHESRTTR.....HN.ED.....	GYYLVQLVGTLPSPIVL	
Bgtv316_8331	KATRFTKRLP.....KG.VK.....	MSYLLQATGTGSPSYKL	
Bgtv316_8180	KAKRFTRVL.....NR.ET.....	MLYLLQVIGPQPSYQL	
BLGH_07084	GSHQFTINSL.....DG.TS.....	LKYLIQSIIGVDPSYQL	
BLGH_07005	GAYRFTSHLP.....DG.TP.....	KNYLIQTVSVEPYRRL	
Bg_SECS1459_3091	GAYRFTSNQP.....DG.TP.....	TTYLIQSVNVEPYQRL	
BgTRIT_T1-20_3159	GAYRFTSNQP.....DG.TP.....	TTYLIQTVNVEPYQRL	
Bgtv316_8311	RAYRFTDYLP.....DG.SP.....	RNYLYLVQMVNVPYYRL	
BgTRIT_T1-20_996	GAYRFTDYLP.....DG.SP.....	RNYLYLVQMVNVPYYRL	
BLGH_05395	GYVRFTSPAK.....DG.RI.....	IDYLYLVQSFSDYPYFTL	
Bgtv316_5533	GYVGF TSPAK.....DG.RI.....	IDYLYLVQSFSDYPYFTL	
BgTRIT_T1-20_2822	GVKRFKRQAQ.....DG.RY.....	IDYLYLVQRLQAYPNYIL	
consensus>70	.....g.....	.yl.q....p...r.	

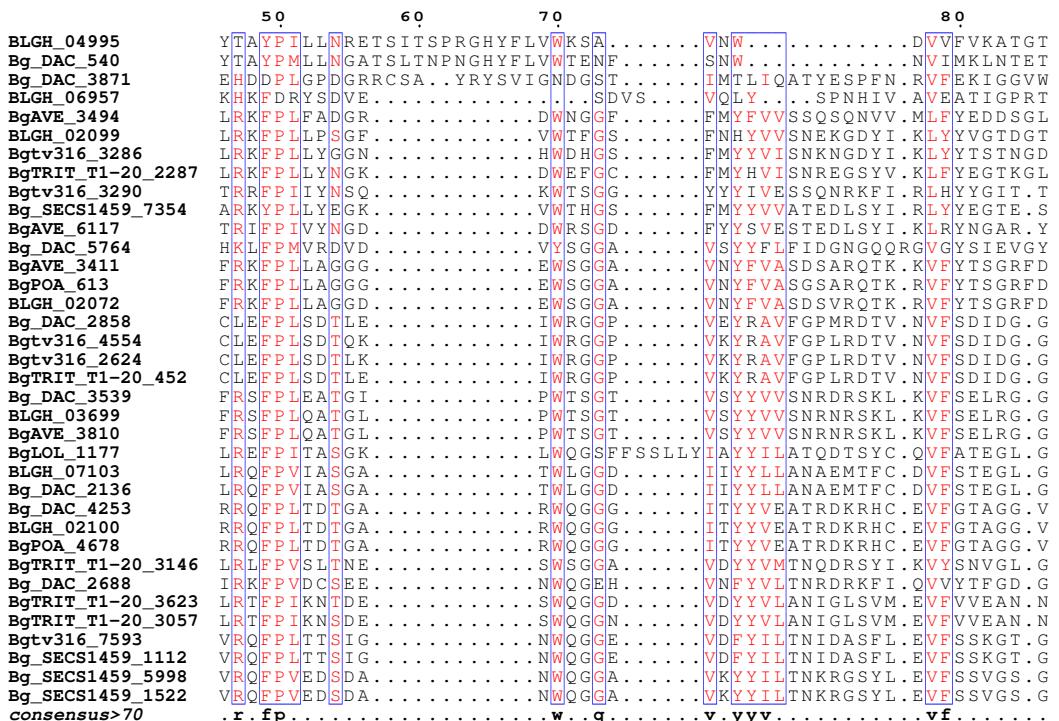
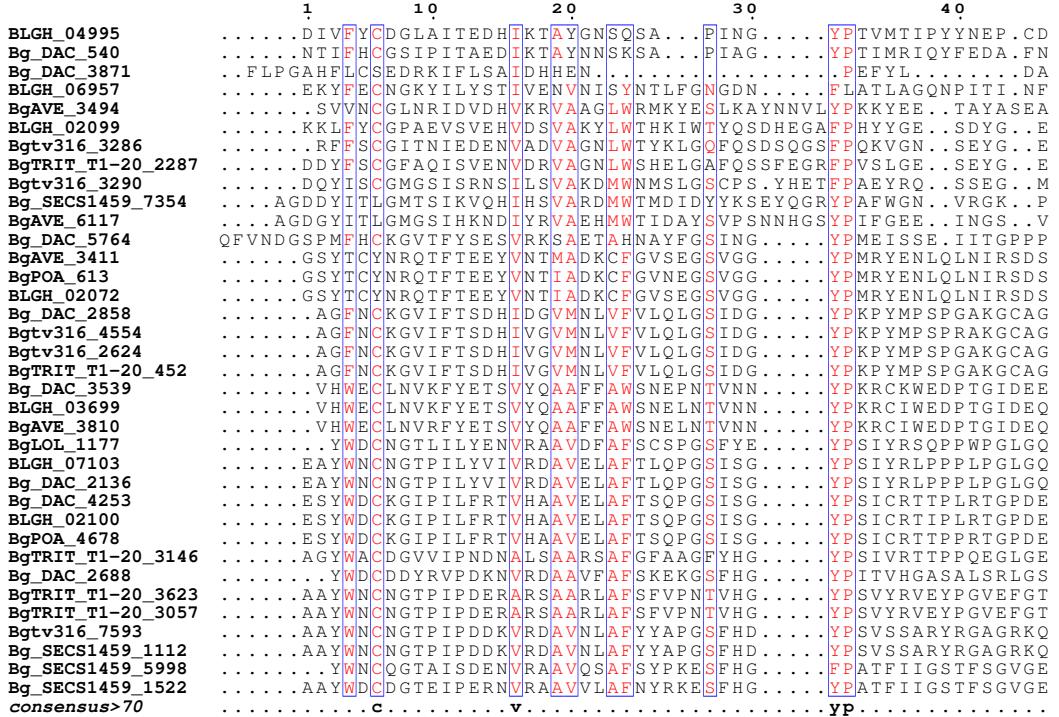
	100	110
Bg_DAC_7352	VS|RV.....SEDEH|QPF|LIN.....	
BgTRIT_T1-20_2761	SQKTEN.....GWKE|CSIINLV.....	
Bg_SECS1459_3368	SQMSTE.....GWKL|CT.....	
BgTRIT_T1-20_5798	SQYSEE.....GWGL|CDVEEIH.....	
Bgtv316_6193	FERTET.....GWQE|CPYYPY.....	
Bgtv316_8282	FEKVGE.....AWVSC|PFPQORE.....	
BLGH_06963	FEKIAG.....WQPC|PPFYLR.....	
Bg_DAC_4561	LEKIGG.....VWRQC|PFPYLRE.....	
BLGH_07048	LEKIGG.....VWRQC|PFPYLRE.....	
BLGH_05403	FEKIGG.....VWRQC|PFPYLRE.....	
BLGH_07006	YEETTS.....GWRPC|PFLD.....	
Bg_DAC_226	FEDITG.....EWLPC|CSFHLLDSWSQ.....YDRFKM.....	
Bg_DAC_2147	YEKTEQ.....GWRIC|PPFHKP.....	
Bg_SECS1459_7718	FEKTAQ.....GWQPCTFDKA.....	
Bg_SECS1459_2049	FKKVET.....GWKPC|EYYEALVFE.....	
Bgtv316_8324	FKKVET.....GWKPC|VYYEALVFE.....	
BLGH_07087	FEIDG.....DWRPC|TFYER.....	
Bgtv316_260	FDKIEG.....DWRPC|CLYHES.....	
Bgtv316_8333	FDQIEG.....DWRPC|SYHES.....	
Bg_SECS1459_1061	YEKINK.....NWKQC|AYVKDTSRTP.....WRK.....	
BLGH_04763	YTPKII.....	
BgTRIT_T1-20_4719	YE|DLSN.....EWEPC|VYQETNKHTD.....SDSDESDI.....	
BLGH_07086	YEYSGG.....VF|KPC|PFIED.....	
Bgtv316_8313	YEYSGG.....VF|KPC|PFIED.....	
BgLOL_5114	YMRREST.....QEKPC|PFNQD.....	
Bg_DAC_4110	YEKKDK.....GWECL|LFREN.....	
Bgtv316_8310	YEKQFY.....EFFRC|PLQEK.....	
BgTRIT_T1-20_7515	YETQSR.....GF|YPC|CNWIES.....	
BLGH_06991	FEKQSG.....EF|YPC|CNLIEN.....	
BgAVE_3936	FEKQSG.....EF|YPC|CNLIEN.....	
Bgtv316_8319	YKRDRP.....PWKLCPYFEN.....	
BLGH_07004	YERGSK.....TWKPC|SYFKD.....	
Bgtv316_2696	YEKPYS.....NWKQC|FTMMKHNGNLH.....IGLIFIEAPGSGIL.....	
Bgtv316_4514	YEKPYS.....VWEQC|IYHDET.....	
BLGH_01226	YEKPYN.....VWEQC|IYHDET.....	
Bgtv316_2692	YEKSYKDYH|LNPDGTEWLCPYHNDT.....	
BLGH_05877	YEKSYKDYH|LNPDGTEWLCPYHNDT.....	
Bg_SECS1459_7232	YEKSYEDYRLNPAGT|WELCPYHNDT.....	
BgTRIT_T1-20_3173	YEKSYEDYRLNPAGT|WELCPYHNDT.....	
BgAVE_6379	YLLRGD.....NWQPC|CVYMSN.....	
Bg_DAC_4813	YVLRGD.....NWQPC|CVYMSN.....	
Bgtv316_8302	YEKYRK.....TWDPC|TFVFS.....	
Bg_DAC_3070	YTRNAE.....RWQRC|LFWNY.....	
BLGH_06960	YTRNAE.....RWQPC|CVYMSN.....	
Bgtv316_8321	YTRNAE.....RWQPC|CVYMSN.....	
Bg_DAC_4560	FQRTTE.....VWEPC|RFLKH.....	
Bgtv316_8308	FERDEQ.....VWEPC|IFLKTL.....	
Bg_SECS1459_2788	FERDEQ.....VWEPC|IFLKTL.....	
Bg_DAC_4657	FERTTQ.....IWKPC|CVFIED.....	
Bg_DAC_4305	FERTTQ.....IWKPC|CVFIED.....	
BLGH_04764	FHKTKE.....VWKPC|RFIEN.....	
BLGH_04765	FHRTTE.....VQEPCKFIEN.....	
Bgtv316_4510	FEITS.....GHKEC|PIGAHGR.....	
Bgtv316_445	FDVTS.....GHHKQC|CHIVNDYAETS.....	
Bgtv316_8329	YEKVSS.....NWKIC|PIEDQDP.....	
Bgtv316_253	FE|LTSS.....QWSAC|GLQSDYQQT.....LAWRKDIFPS.....	
Bg_DAC_519	YESYNY.....KWTQCK.....	
BgTRIT_T1-20_367	YQWYHD.....KWI|CELLNNNPQ.....	
BLGH_07049	YIFSN.....R|WKLCP|IIDEQ.....	
BgLOL_6292	YEYGQS.....GWEFC|YLALR.....RSEPV.....	
Bg_DAC_2293	YEYGQS.....GWEFC|SFALAR.....RPESMLYE.....	
Bgtv316_8331	YEYNES.....K|WQSC|ILRNGK.....	
Bgtv316_8180	YEYHEP.....KWHPC|LLRQGTWLAS.....	
BLGH_07084	FEASGS.....LWKIC|TFKNT.....	
BLGH_07005	FEYNDG.....K|WKLCP|NLI.....	
Bg_SECS1459_3091	FESSEG.....QWRI|CTPKNGHL.....	
BgTRIT_T1-20_3159	FESSEG.....QWRI|CTPKNGHL.....	
Bgtv316_8311	FESSGG.....RWHIC|TIKGS.....	
BgTRIT_T1-20_996	FESSGG.....RWHIC|TMEGS.....	
BLGH_05395	HEFTGT.....KWEKC|ILKGSYLDATEPL.....	
Bgtv316_5533	HEFTGT.....KWEKC|ILKGSYLDATEPL.....	
BgTRIT_T1-20_2822	YEWNTD.....KWEEC|TMKIVLNRYRKRSRS.....	
consensus>70	ye.....w..c.....	

Multiple sequence alignment (MSA) of AVR_{A10}/AVR_{A22} subfamily members

	1	10	20	30	40	50	60	
BLGH_05021	MYNDDYT	F Y C N G Q L F D T E S V R A T A T Y S A D Q I A G S L N G Y P A V Y E F S H P R G V A P F Q L F P L L P						
BgPOA_6159	. . . . . V M Y D C F G T I I D G D V K R A E A S H D Y A S T S K V A					L I K E D . S K I P Y T Y F D I H	
Bgtv316_6209	. . . . . D S Y O C R G K Y F D G D G V R S Q A S Y W Q R Q K K K I S				K L S T S . D G E K L A Y F E L G N		
BLGH_05020	. . . . . D S Y O C R G K Y F D G D G V R S Q A S Y W Q R Q K K K I S				K L S T S . D G E K L A Y F E L G N		
Bg_DAC_4215	. . . . . N Y Y O C G N M S F R K D H V R T Q A R H W V S R Q A T T F S				E F H T R . D D Q Q L A Y F E L S T		
BgAVE_4762	. . . . . N Y Y O C G N M S F R K D H V R T Q A R H W V S R Q A T T F S				E F H T R . D D Q Q L A Y F E L S T		
BLGH_01413	. . . . . D G F O C G S Q S Q S I S G E E A R P Q A K H W V G C Q K T K F S				E F V T Q . D Q V P L C Y F E L S P		
Bg_SECS1459_6790	. . . . . D G F O C G S Q S Q S I S G E E A R P Q A K H W V G C Q K T K F S				E F V T Q . D Q V P L C Y F E L S P		
Bgtv316_6210	. . . . . D G W T C A G R N Y E G V N V R A Q A R H W V G E G N L K G S				D F R A S . N R S K L H F F E V G E		
Bg_SECS1459_3169	. . . . . D G W T C A G R N Y E G V N V R A Q A R H W V G E G N L K G S				D F R A S . N R S K L H F F E V G E		
BgLOL_6315	. . . . . G G W T C A G R N F E G D E V R A Q A E H W A R E G I D K V S				D F V N D . E G G Q L Y Y F E V G R A		
BgPOA_4369	. . . . . G G W T C A G R N F E G D E V R A Q A E H W A R E G I D K V S				D F V N D . E G G Q L Y Y F E V G R A		
BgLOL_714	. . . . . D G W T C A G S D F D G D Q V R G Q A R H W V D Q Q K T K F S				D F Q T H . D G V Q L C H F L F E G E		
BgTRIT_71-20_758	. . . . . D G W T C A G R N V K G D D V R A Q A R H W V G L M N T K F S				E F E I K . D S V Q L C Y I E I G E		
BgAVE_1525	. . . . . D G W T C A G R N V K G D D V R A Q A R H W V G L M N T K F S				E F E I K . D S V Q L C Y I E I G E		
BgLOL_5698	. . . . . D G W T C A G R N V K G D D V R A Q A R H W V G L S D T K F S				E F E I K . G G V Q L C Y I E I G E		
consensus>70	. . . . . c g . . . g d v r q a h k s . . . e f . . . d . . . l y f e . . .						

	70																				
	D	H	.	.	.	K	F	Y	T	G	.	.	.	.	G	K	L	.	.	K	Y
BLGH_05021	D	H	.	.	.	K	F	Y	T	G	.	.	.	.	G	K	L	.	.	.	.
BgPOA_6159	TGQY	S	E	R	Y	TG	F	A	C	F	V	D	T	A	M	T	K	P	D	V	R
Bgtv316_6209	GNEI	S	E	I	K	TG	Y	R	G	Y	F	V	A	G	D	L	H	E	V	R	Y
BLGH_05020	GNEI	S	E	I	K	TG	Y	R	G	Y	F	V	A	G	D	L	H	E	V	R	Y
Bg_DAC_4215	DTTP	T	N	R	K	TG	Y	R	G	Y	C	Q	E	D	G	L	Y	Q	V	R	Y
BgAVE_4762	DTTP	T	N	R	K	TG	Y	R	G	Y	C	Q	E	D	G	L	Y	Q	V	R	Y
BLGH_01413	HSQI	T	D	S	Y	TG	F	R	G	Y	C	D	E	P	G	N	L	E	V	R	Y
Bg_SECS1459_6790	HSQI	T	D	S	Y	TG	F	R	G	Y	C	D	E	P	G	N	L	E	V	R	Y
Bgtv316_6210	GLIL	T	E	W	.	..	V	R	A	Y	C	T	L	T	G	I	Y	N	L	R	Y
Bg_SECS1459_3169	GLIL	T	E	W	.	..	V	R	A	Y	C	T	L	T	G	I	Y	N	L	R	Y
BgLOL_6315	ETQL	T	E	S	C	TG	C	R	A	Y	T	N	K	S	G	I	Y	N	L	R	Y
BgPOA_4369	ETQL	T	E	S	C	TG	C	R	A	Y	T	N	K	S	G	I	Y	N	L	R	Y
BgLOL_714	GNQL	T	Q	S	I	TG	F	R	A	Y	C	D	E	P	G	D	V	Y	N	V	R
BgTRIT_T1-20_758	GAQT	T	K	..	..	G	F	R	A	Y	L	D	E	P	G	A	V	Y	N	V	R
BgAVE_1525	GAQT	T	K	..	..	G	F	R	A	Y	L	D	E	P	G	A	V	Y	N	V	R
BgLOL_5698	GAQT	T	K	E	F	TG	F	R	A	Y	L	D	E	P	G	A	V	Y	N	V	R
<i>consensus>70</i>	....	t	e	.	..	t	g	.	r	y	..	g	..	g	..	w	..	c	..	y	..

Multiple sequence alignment (MSA) of AVR_{PM2} subfamily members



90 100

BLGH_04995	ESC WMAVPFLGRRILDSIVTM
Bg_DAC_540	KFC QMTSQYWGSSLQTIILNL
Bg_DAC_3871	RQC PFYLRE.....
BLGH_06957	YP YAVTIE.....
BgAVE_3494	HNC PLDQYYG.....
BLGH_02099	VEC DIPRD.....
Bgtv316_3286	VEC DIYGP.....
BgTRIT_T1-20_2287	EEC CVIVIPE.....
Bgtv316_3290	QE CYVTGKV.....
Bg_SECS1459_7354	CDR EVPSPE.....
BgAVE_6117	ETC MVSSPE.....
Bg_DAC_5764	QLC DAY.....
BgAVE_3411	DEC AYTR.....
BgPOA_613	DEC CAYTR.....
BLGH_02072	DEC CAYTR.....
Bg_DAC_2858	QE CVSA.....
Bgtv316_4554	QE CVSA.....
Bgtv316_2624	QE CVSA.....
BgTRIT_T1-20_452	QE VSA.....
Bg_DAC_3539	FLC NLIVTD.....
BLGH_03699	FLC NLKVTD.....
BgAVE_3810	FLC NLKVTD.....
BgLOL_1177	YE THILG.....
BLGH_07103	YRC DLVAS.....
Bg_DAC_2136	YRC DIVAG.....
Bg_DAC_4253	YKC TLVLRD.....
BLGH_02100	YKC TLVLLD.....
BgPOA_4678	YKC TLVLLD.....
BgTRIT_T1-20_3146	TMC GYYET.....
Bg_DAC_2688	GNC AHVQD.....
BgTRIT_T1-20_3623	KRC TKVAG.....
BgTRIT_T1-20_3057	KRC TKVAG.....
Bgtv316_7593	HKC TYFEG.....
Bg_SECS1459_1112	HKC AYFEG.....
Bg_SECS1459_5998	NEC TFVEG.....
Bg_SECS1459_1522	NKC TFVEG.....
consensus>70	...C.....