

MERIT40

Homo sapiens:

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>sp|Q9NWV8|BAB1_HUMAN BRISC and BRCA1-A complex member 1 OS=Homo sapiens OX=9606 GN=BAB1 PE=1 SV=1
MEVAEPSSPTEEEEEEHSAEPRPT[SNPECA]DRAVGAQASVGS[SEGECH]ASADD
GSLNTSGAGPKSWQVPPEPEVQIRTPRVNCPKVIICLDLSEMSLPKLESFNGSKTNA
LNVSQKMIEMFVRTKHKIDKSHEFALVVNDDTAWLSGLTSDPRELCSCLYDLETASCST
FNLEGLFSLIQQKTELPTENVQTI PPPYVVVRTILVYSRPPCQPQFSLTEPMKKMFQCPY
FFFDVVYIHNGTEEEKSEMSWKDMFAFMGSLDTKGTSYKYEVALAGPALELHNCMAKLLA
HPLQRPCQSHASYSLLEEDEAEIEVEATV
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Pongo abelii:

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>NP_001126315.1 BRISC and BRCA1-A complex member 1 [Pongo abelii]
MEVPEPSSPTEEEEEEHSAEPRPT[SNPECA]DRAVGAQASVGS[SEGECH]ASADDGSPNTSGAGP
KSNQVPPPAPEVQIRTPRVNCPKVIICLDLSEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDK
SHEFALVVNDDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQQKTELPTENVQTI PPPYV
VRTILVYSRPPCQPQFSLTEPMKKMFQCPYFFFDVVYIHNGTEEEKSEMSWKDMFAFMGSLDTKGTSYKY
EVALAGPALELHNCMAKLLAHPLQRPCQSHASYSLLEEDEATEVEATV
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Mus musculus:

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>NP_080912.2 BRISC and BRCA1-A complex member 1 [Mus musculus]
MEVAEANSPTEEEEEEGEETISEPRPT[SNPECA]DRALGAQASVGS[SEGECH]ATADGGAASVP
GAGPKPQVPPASASEVQIRTPRVNCPKVIICLDLSEMSVPKLESFNGSRTNALNVSQKVMEMFVRTKH
KIDKSHEFALVVNDDSAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQQKTELPTENVQTI PP
PPYVVVRTILVYSRPPCQPQFSLTEPMKKMFQCPYFFFDIVYIHNGTEEEKEDMSWKDMFAFMGSLDTKGA
SYKYEVALAGPALELHNCMAKLLAHPLQRPCQTHASYSLLEEDEEAGEEATV
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Gallus gallus:

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>XP_015155591.1 BRISC and BRCA1-A complex member 1 isoform X3 [Gallus gallus]
MERSCGMDTSGPGSAEEEEKAPQRPRPT[SNPECA]DRALSAQSSVGN[SEGECH]ASSEDS PQGTAA
PDGTAWFGPAHPPPEVQVKTFRVNCPEKVIICLDLAEEMALPKLESFNGSKTNALNLSQKMIEMFVRTKH
KIDKSHEFALVVNDATWLSGFTSDPREVCSCLYDLETNVCKSFNLGLENLIQQKTELPTVDNVQTI PP
PPYVVVRTILVLGRPCQCPQFSVSEGMKKMLQCPYFFFDVVYIHNGAEKEDETSWKELYAFFGSLDTKGT
NRYREVTLTGPALELHNCMAKLLAHPLQRPCQSHAAYSLLGEDPEVEATV
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Xenopus laevis:

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>NP_001086385.1 BRISC and BRCA1-A complex member 1 [Xenopus laevis]
MDNSTETFSMDTSEPLEEGEQTHERPHT[SNPECA]DRGVVHQAGVGS[SEGECH]AQVEDPLPTTTT
VPNTSTPPPTLEFQLKTPRVNCPKVIICLDLSEEMSTQKLESFNGSKANALNVSQKMIEMFVRTKHKID
KRHEFALVVANNEAMWLSGFTSDPREVCSCLYDLETNVCESNLEGLFNLIQQRTEFFVTDNVQTI PPPY
VVRILLYSRPASQPALALTDMNKKMQCPYFFFDIVYIHNGSEEEELCWKIDFGFFSSLDSKGTSYKYE
VSTITGPALELHNCMARLLAHPLQRPCQSHAAYSLLEEEESEPEVTV
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Salmo salar:

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>XP_013979057.1 PREDICTED: BRISC and BRCA1-A complex member 1 [Salmo salar]
MEYTPQPGPADGEERSVELRPRPT[SNPECA]DRRSSTGSLGNSNPSTPQPAVGS[SEGECH]STSDSPFSS
TTTTVSATTAQTVAPIVAATVNAIVGLPTPTPVAKDRPKPTQAPPFLTPTTPIPTAEFQLRAIPRVNCPK
VIICLDLSEEMSSQKLESFNGSKTNALNLSQKMIEMFVRTKHKIDKRHEFALVVNDALWLSGFTSDPRE
LCSCLYDLDTNVCEFNLEDLLSVIRQKIDLPLMDNIQTIPPPFVVRTLLYSRHAGQLQFSPSDAVNSM
LLSPYFFFDVVYILHNGAEQGEASWRDITYTSCNLDKSGTCYHEVSVLCGPAIELHNCMAKLLSHPLQR
PFQSHASYSLLEGDDPQDVEATV
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Petromyzon marinus:

No homolog found.

Branchiostoma belcheri:

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>XP_019620522.1 PREDICTED: BRISC and BRCA1-A complex member 1-like [Branchiostoma belcheri]
MSSTASTTEESVLPDPTTVSESARSESDEVVSTQEEEEKEEEKKDPPRDETPHTENEELNSLASTVSSS
QDSQSSDGTIHVLLPKVNCPEKIVVCLDMSKEMTSRHVSRDGSQFSPLSLAKRVIEIFVRTKSRMDRK
HQFALVILHDAPTLMLESELLSPHLFLDALYVHQPPADDNQSIETFNAICDLDRKCLSYVVEVATNVNMTF
HNHMAKLLAHPLQRPQSDTYTKLQSNBEVS
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Drosophila melanogaster:

No homolog found.

Hydra vulgaris:

No homolog found.

Nematostella vectensis:

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>XP_032232271.1 BRISC and BRCA1-A complex member 1 isoform X1 [Nematostella vectensis]
MSKQLPETDLIDLSDDKDADSQRSSPVILTKPHKNHNTGKGRKGEKVKQEKSGKGHESPSHSIGDSL
NSNDSPDRRLVFWNVCQEKIILCLDSLNMNEKSFPSKKAPDFTAYQFVRKAAKIFVNNKAMLINSIHEF
GVITLADDAWYQQFESNPDICTLLDLHLPSEEDNQDTFDMCKLFQTCQRIALPEVEDPALPPPVVIR
VIMYGRSCHPPHFTDRSQMLRELLQSPYFFFDVLVHVELPSENNQCEAIYDSFCLEDEDELDGYMLEVS
RSTSRFLDHMAILLAHPLQRPKQRTFYELQNRDDNETT
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Amphimedon queenslandica:

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>XP_019851282.1 PREDICTED: BRISC and BRCA1-A complex member 1-like [Amphimedon queenslandica]
MADNTISVSSSISNASVLSFDNAQDIHPSCPEKIVFCIDVSEDVSIITTVKSKDRGDLPLFTVWKNALTQF
VFNKSMGMKHEFALMILTDKANMFCDFSSDPLVSDALTSLENVQEYDSFDTSSIFSAIYENCPPPSVC
VGSSMSPPPFTVVRVILYGRSHCLPVYRGESEAHSELMASPHFFLDLVLYSHDPTGHTNVQCYSIFDILSEI
YKPKPALVLDSANLVKLYNFFAKLLAHPLQRPVQSMMDNRLISQVT
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Alignment

XP_013979057.1[S.salar]	-----METPQGPADGEERSVELRPRT RSNPEGAED RRSSSTGSLGNSNPS	45
NP_001086385.1[X.laevis]	-----MDNSTEETFS-MDTSEPLEEGEQTHEQRPHTR RSNPEGAED RGVV-----	43
XP_015155591.1[G.gallus]	MERSCGMDTSGPG-----SAAEEEEKKAPEQRPRTR RSNPEGAED RALS-----	43
NP_080912.2[M.musculus]	-----MEVAEANSPTEEEEEEEEGEETISEPRPHTR RSNPEGAED RALG-----	44
Q9NWV8[H.sapiens]	-----MEVAEPSSPTEEEEEE-----EEHSAEPRPRTR RSNPEGAED RAVG-----	40
NP_001126315.1[P.abelii]	-----MEVPEPSSPTEEEEEE-----EEHSAEPRPRTR RSNPEGAED RAVG-----	40
XP_019851282.1[A.queenslandica]	-----MSSTAS-----TTEESVLPDPTTVSESA-----R-S-ESDEVVSTQE--	35
XP_019620522.1[B.belcheri]	-----MS-----KQLPETDLIDLSDDKDADSQ-RSSPVILTKHPN	34
XP_032232271.1[N.vectensis]		
XP_013979057.1[S.salar]	TPQPAVGS SVSGSGG STSDSPSPSTTTTTSATTAQTVAPIVAATVNAIVGLPTPTPAVK	105
NP_001086385.1[X.laevis]	-HQAGVGS SESEGE AQVEDPLPTTTT-----	70
XP_015155591.1[G.gallus]	-AQSSVGN SESEGE ASSEDSFGQTAA-----	70
NP_080912.2[M.musculus]	-AQASVGS SESEGE ATADGGAASVFG-----	71
Q9NWV8[H.sapiens]	-AQASVGS SESEGE ASADGSLNTSG-----	67
NP_001126315.1[P.abelii]	-AQASVGS SESEGE ASADGSPNTSG-----	67
XP_019851282.1[A.queenslandica]	-----M-----ADN-----	4
XP_019620522.1[B.belcheri]	-----EEEEEEKKDPPRDETPHTENE-ELNSL-----AST-----	66
XP_032232271.1[N.vectensis]	KHNTGKGRKGEEKVQ-EKSGKGGHESPS-----HS-----	63
XP_013979057.1[S.salar]	DRPKPTQAPPPLTPPIPTTAEQFLRAPRVNCEPKVIIICLDLSEEMSSQKLESFNGSKTNA	165
NP_001086385.1[X.laevis]	-----VPTNSTPPTLEFQLKTRPRVNCPEKVIIICLDLSEEMSTQKLESFNGSKANA	121
XP_015155591.1[G.gallus]	-----PDGTAMPGBAHPPEVQVKTTRPVNCEPKVIIICLDLAEEMALPKLESFNGSKTNA	124
NP_080912.2[M.musculus]	-----AGPKPQVVPAS-ASEVQIRTPRVNCEPKVIIICLDLSEEMSVPKLESFNGSKTNA	124
Q9NWV8[H.sapiens]	-----AGPKSQWVPPP-APEVQIRTPRVNCEPKVIIICLDLSEEMSLPKLESFNGSKTNA	120
NP_001126315.1[P.abelii]	-----AGPKSQWVPPP-APEVQIRTPRVNCEPKVIIICLDLSEEMSLPKLESFNGSKTNA	120
XP_019851282.1[A.queenslandica]	-----ISVSSSISNASVLSFDENAQDIHPSCEPKIVFCIDVSEDVSIITTVKSKDRGDLPL	59
XP_019620522.1[B.belcheri]	-----VSSSQDSQDSSDGTIHVLLPKVNCPEKIVVCLDMSKEMTSRHVSSRDGSQLFSP	119
XP_032232271.1[N.vectensis]	-----IGDSLSLNSNDSNDPRFLVPWNQCQEKIILCLDLSEMEMNEKSFPSKAPDFTA	116
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XP_013979057.1[S.salar]	LNISQKMIEMFVRTKHKIDKRHEFALVVVNDLAWLSGFTSDPRELCSCLYDLDTN---V	222
NP_001086385.1[X.laevis]	LNSSQKMIEMFVRTKHKIDKRHEFALVVANNEAMWLSGFTSDPREVCSCLYDLETN---V	178
XP_015155591.1[G.gallus]	LNISQKMIEMFVRTKHKIDKSHEFALVVVNDATWLSGFTSDPREVCSCLYDLETN---V	181
NP_080912.2[M.musculus]	LNVSQKMIEMFVRTKHKIDKSHEFALVVVNDASAWLSGLTSDPRELCSCLYDLETA---S	181
Q9NWV8[H.sapiens]	LNVSQKMIEMFVRTKHKIDKSHEFALVVVNDTAWLSGLTSDPRELCSCLYDLETA---S	177
NP_001126315.1[P.abelii]	LNVSQKMIEMFVRTKHKIDKSHEFALVVVNDTAWLSGLTSDPRELCSCLYDLETA---S	177
XP_019851282.1[A.queenslandica]	FTVWKNALTQFVFNKSMGM-KHEFALMILTDKANWCFDSSDPQLVSDALTSLENVQ-EK	117
XP_019620522.1[B.belcheri]	LSLAKRVIEIFVRTKSRMRDKHQFALVILH-----	149
XP_032232271.1[N.vectensis]	YQFVRKAAKIFVNNKAMLNSIHEFGVITLADATWYQQFESNPDMCITLLDHLNPSEEDN	176
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XP_013979057.1[S.salar]	CETFNLEDLLSVIRQKIDLPLM-DNIQTIPPPFPVVVTRLLIYSRHAGQLQFSPS--DAVNS	279
NP_001086385.1[X.laevis]	CESFNLEGLFNLIQORTEFPVT-DNVQTIPPPYPVVRIILIYSRSPASQPALAT--DNMKK	235
XP_015155591.1[G.gallus]	CKSFNLDGLFNLIQOKTELPVT-DNVQTIPPPYPVVRIILVLRPGCQPFQFSVS--EQMKK	238
NP_080912.2[M.musculus]	CSTFNLEGLFSLIQOKTELPVT-ENVQTIPPPYPVVRIILVYSRPFCQPFQFSLT--EPMKK	238
Q9NWV8[H.sapiens]	CSTFNLEGLFSLIQOKTELPVT-ENVQTIPPPYPVVRIILVYSRPFCQPFQFSLT--EPMKK	234
NP_001126315.1[P.abelii]	CSTFNLEGLFSLIQOKTELPVT-ENVQTIPPPYPVVRIILVYSRPFCQPFQFSLT--EPMKK	234
XP_019851282.1[A.queenslandica]	YDSFDTSSIFSIAIYENCPPPSVCVGSMSPPFFIVRVIIILYGRSHCLPVYRGES-EAHSE	176
XP_019620522.1[B.belcheri]	-----DAPTLMLESE-----	158
XP_032232271.1[N.vectensis]	QDTFDMELFQETICQRIALPE--VEDPALPPYPVIRVIMYGRSHCPPHFTDRSRQMLRE	234
	.	
XP_013979057.1[S.salar]	MLLSPYFFFDVYVYLNHGAEEQGDEASWRDIYFSFCNLDSKGTGYHFEVSLCGPAIELHNC	339
NP_001086385.1[X.laevis]	MLQCPYFFFDVYVYIHNHGSSE--EELCWKDIFFGSSLDSKGTGYKYEVSITGPAIELHNC	293
XP_015155591.1[G.gallus]	MLQCPYFFFDVYVYIHNHGAEEKEDETSWKELYAFFGSLDTKGTNYRYEVLITGPAVELHNC	298
NP_080912.2[M.musculus]	MFQCPYFFFDVYVYIHNHTEEEKEDMSWKDMFAFMGSLDTKGASYKYEVALAGPAIELHNC	298
Q9NWV8[H.sapiens]	MFQCPYFFFDVYVYIHNHTEEEKEDMSWKDMFAFMGSLDTKGTGYKYEVALAGPAIELHNC	294
NP_001126315.1[P.abelii]	MFQCPYFFFDVYVYIHNHTEEEKEDMSWKDMFAFMGSLDTKGTGYKYEVALAGPAIELHNC	294
XP_019851282.1[A.queenslandica]	LMASPHFLDLVLYSHDEPTG---HNVCQSIFDILSEIYPKPKALVLDWSA--NLVKLYNF	213
XP_019620522.1[B.belcheri]	LLLSPHFLDALVYHQPPAD---DNQSTIEIFNAICLDLRKCLSYVEYVAT--NVTMFHHH	231
XP_032232271.1[N.vectensis]	LLQSPYFFFDVYVYHELPSSE---NNQCEAIYDSFCELDEDEGYMLEVSR--STSRFLDH	289
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XP_013979057.1[S.salar]	MAKLLSHPLQRPFPQSHASYSLLLEGDDPDQDVEATV-	373
NP_001086385.1[X.laevis]	MAKLLAHLQRPFPQSHAAYSLLLEEEESPESEVTV-	328
XP_015155591.1[G.gallus]	MAKLLAHLQRPFPQSHAAYSLLLEGDEPPEVEATV-	332
NP_080912.2[M.musculus]	MAKLLAHLQRPQCPQSHASYSLLLEDEEAGEEATV-	333
Q9NWV8[H.sapiens]	MAKLLAHLQRPQCPQSHASYSLLLEDEEAIEVEATV-	329
NP_001126315.1[P.abelii]	MAKLLAHLQRPQCPQSHASYSLLLEDEEAIEVEATV-	329
XP_019851282.1[A.queenslandica]	FAKLLAHLQRPVQSMMDNRLISQKT-----	257
XP_019620522.1[B.belcheri]	MAKLLAHLQRPQASDITYKQLQSNEEVS-----	241
XP_032232271.1[N.vectensis]	MAILLAHLQRPKQRDTFYELQNRDDNETT-----	319
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