

Product datasheet for TP522863

Bcr (NM_001081412) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse breakpoint cluster region (Bcr), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR222863 representing NM_001081412
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MVDSVGFAEAWRAQFPDSEPPRMELRSVGDIEQELERCKASIRRLQEVNQERFRMIYLQTLAKEKKS
 DRQRWGFRRAAQPPDGAAEPRASAPRPPAPADGADPAPVEESEARPDGEGSPSKGRSASARRPAAAASA
 DRDDRGPPTSVAALRSNFEKIRKGPAPGSADEKPFYVNVFHHHERGLVKVNDKEVSDRISLSGSQAMQ
 MERKKSQQSAGQGLGEAPRPHYRGRSSESSCGLDGDYEDAELNPRFLKDNLINANGGNRPPWPPLEYQPY
 QSIYVGGMMVEGEGKSPLLRSQSTSEKRLTWPRRSYSPRSFEDSGGGYTPDCSSNENLTSSEEDFSSG
 QSSRVSPSTTYRMFRDKSRSPSQNSQSFDSSTPPTQCQKRHRQCQVVVSEATIVGVRKTGQIWPSDG
 DSTFQGEADSSFGTTPPGYGCAADQAEQRRHQDGLPYIDDSPSSPHLSSKGRGSLASGALDPTKVSELD
 LEKGLEMRKWVLSGILASEETYLSHLEALLPMKPLKAAATTSQPVLTSQQIETIFFKPELYEIHKEFY
 DGLFPRVQQWSHQQRVGDLFQKLASQLGVYRAFVDNYGVAMETAEKCCQANAQFAEISENLRARSNKDVK
 DSTTKNSLETLLYKPVDRVTRSTLVLDLLKHTPSSHDPHLLQDALRISQNFSSINEEITPRRQSMVT
 KKGEHRQLLKDSFMVELVEGARKLRHIFLFTDLLLCTKLKQSGGKTQQYDCKWYIPLTDLFQMVDELE
 ALPNIPLVPDEELDALKIKISQIKSDIQREKRANKGSKVMERLRKKLSEQESLLLLMSPSMAFRVHSRNG
 KSYTFLISSDYERAERESIREQQKCKFSFLTSVELQMLTNSCVKLQTVHHIPLTINKEDDESPGLYG
 FLHIVVHSATGFKQSSNLYCTLEVDSFGYFVNKAKTRVYRDTEPNWNEEFIELEGSQTLRILCYEKY
 NKMKMTKEDGESADKLMGKGQVQLDPPQLQDRDWRQRTVIDMNGIEVKLSVKFTSREFSLKRMPSRKQTGV
 FGVKIAVWTKRERSKVPYIVRQCVEEIERRGMEEVGIYRVSGVATDIQALKAADFVNNKDVSMVMSEMDV
 NAIAGTLKLYFRELPEPLFTDEFYPNFAEGIALSDPVAKESCMLNLLLSLPEANLLTFLFLDLHLKRVAE
 KETVNMKMSLHNLATVFGPTLLRPSEKESKLPANPSQPITMTDSWSLEVMSQVQVLLYFLQLEAIPAPDSK
 RQSILFSTEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	143.5 kDa



[View online »](#)

Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001074881
Locus ID:	110279
UniProt ID:	Q6PAJ1 , A2RRK7
RefSeq Size:	6537
Cytogenetics:	10 38.49 cM
RefSeq ORF:	3810
Synonyms:	5133400C09Rik; AI561783; AI853148; mKIAA3017
Summary:	Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein (GAP) domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form. The central Dbl homology (DH) domain functions as guanine nucleotide exchange factor (GEF) that modulates the GTPases CDC42, RHOA and RAC1. Promotes the conversion of CDC42, RHOA and RAC1 from the GDP-bound to the GTP-bound form. The amino terminus contains an intrinsic kinase activity (By similarity). Functions as an important negative regulator of neuronal RAC1 activity (PubMed:20962234). Regulates macrophage functions such as CSF1-directed motility and phagocytosis through the modulation of RAC1 activity (PubMed:17116687). Plays a major role as a RHOA GEF in keratinocytes being involved in focal adhesion formation and keratinocyte differentiation (By similarity).[UniProtKB/Swiss-Prot Function]