

Product datasheet for RC211635

BCR (NM_004327) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BCR (NM_004327) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BCR
Synonyms: ALL; BCR1; CML; D22S11; D22S662; PHL
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC211635 representing NM_004327
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGACCCGGTGGGCTTCGCGGAGGCGTGAAGGCGCAGTCCCGGACTCAGAGCCCCGCGCATGG
 AGCTGCGCTCAGTGGGCGACATCGAGCAGGAGCTGGAGCGCTGCAAGGCCTCCATTGCGCGCTGGAGCA
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 CGTCGCGCCCGCAGCCAGCGCCCGCCGACGGAGCCGACCCGCGCCCGCCGAGGAGCCCGAGGCCCGGCC
 CGACGGCGAGGGTTCTCCGGGTAAGGCCAGGCCCGGGACCGCCCGCAGGCCCGGGGCGAGCCCGCTCGGGG
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TGAGCCACCTGGAGGCACTGCTGCTGCCATGAAGCCTTTGAAAGCCGCTGCCACCACCTCTCAGCCGGT
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AAGAGACAGAGCATCCTGTTCTCCACCGAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC211635 representing NM_004327
 Red=Cloning site Green=Tags(s)

MVDPVGF AEAWKAQFPDSEPPRMELRSVGDIEQELERCKASIRRLEQEVNQERFRMIYLQTL LAKEKKS
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 GAAASG ERDDRGPASVAALRSNFERIRKGHGQPGADAEKPFYVNVFHHHERGLVKVNDKEVSDRIS
 SLGSQAMQM ERKKSQHGAGSSVGDASRPYRGRSSESSCGVDGDYEDAELNPRFLKDNLIDANGGSR
 PPWPPLYQPIYQ SIYVGGMEGEGKPLLRSQSTSEQEKRLTWPRRSYSPRSFEDCGGGYTPDCSS
 NENLTSSEEDFSSGQS SRVSPSTTYRMFRDKSRSPSQNSQQSFDSSSPPTPQCHKRHRHCPVVV
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 PHLSSKGRGRSDALVSGALESTKASEL DLEKGLEMRKWL SGILASEETYLSHLEALLPMKPL
 KAAATTSQPVLTSQQIETIFFKVP ELYEIHKEF YDGLFPRVQQWSHQQRVGDLFQKLASQL
 GYVRAFVDNYGVAMEMA EKCQANAQFAEISENLRARSNKDA KDPTTKNSLETLLYKPVDRVTR
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 VEGARKLRHVLF TDL LCTK LKKQSGGKTQQYDCKWYIPLTDL SFQMVDEL EAVPNIP
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 GKSYTFLISSDYERA EWRENIREQQKCFRSFSLTSVELQMLTNSCVKLQTVHSIPLTINKED
 DESPLY GFLNVIHVSATGFKQSSNLYCTLEVDSFGYFVNKAKTRVYRDTAEPNWNEFEIELE
 GSQLRILCYEKC YNKTKIPKEDGESTDRLMGKQVQLDPQALQDRDWQRTVIAMNGIEVKLSV
 KFNSREFSLKRMP SRKQTG VFGVKIAVVKRERSKVPYIVRQCVEEIERGMEEVGIYRVSGV
 ATDIQALKA AFDVNNKDV SVMSEMD VNAIAGTLKLYFRELPEPLFTDEFYPNFAEGIALSD
 PVAKESCM LNL LLSLPEANLLTFLFLDLHLKRV A EKEAVNKMSLHNLATVFGPTLLRP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

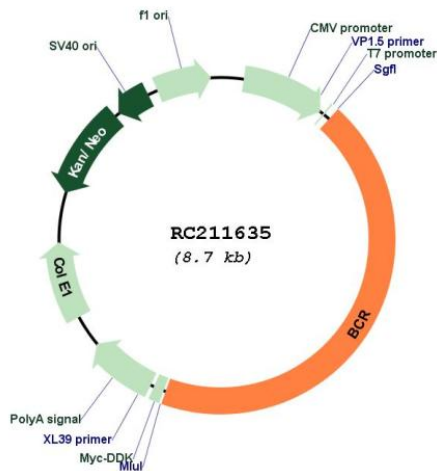
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004327

ORF Size: 3813 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_004327.4](#)

RefSeq Size: 4739 bp

RefSeq ORF: 3816 bp

Locus ID: 613

UniProt ID: [P11274](#)

Cytogenetics: 22q11.23

Domains:	C2, RhoGAP, RhoGEF, PH
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chronic myeloid leukemia, Pathways in cancer
MW:	142.6 kDa
Gene Summary:	<p>A reciprocal translocation between chromosomes 22 and 9 produces the Philadelphia chromosome, which is often found in patients with chronic myelogenous leukemia. The chromosome 22 breakpoint for this translocation is located within the BCR gene. The translocation produces a fusion protein which is encoded by sequence from both BCR and ABL, the gene at the chromosome 9 breakpoint. Although the BCR-ABL fusion protein has been extensively studied, the function of the normal BCR gene product is not clear. The unregulated tyrosine kinase activity of BCR-ABL1 contributes to the immortality of leukaemic cells. The BCR protein has serine/threonine kinase activity and is a GTPase-activating protein for p21rac and other kinases. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2020]</p>