

## Product datasheet for **RG211635**

### BCR (NM\_004327) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BCR (NM\_004327) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** BCR  
**Synonyms:** ALL; BCR1; CML; D22S11; D22S662; PHL  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG211635 representing NM\_004327  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

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GACTTGAAAAGGGCTTGAGATGAGAAAATGGTCTGTGCGGAATCCTGGCTAGCGAGGAGACTTACC  
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AAGAGACAGAGCATCCTGTTCTCCACCGAAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211635 representing NM\_004327  
 Red=Cloning site Green=Tags(s)

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MVDPVGF AEAWKAQFPDSEPPRMELRSVGDIEQELERCKASIRRLQEVEVNRFRMIYLQTL LAKEKSY
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GKSYTFLISSDYERA EWRENIREQQKCFRSFSLTSVELQMLTNSCVKLQTVHSIPLTINKEDDESPGLY
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EKEAVNKMSLHNLATVFGPTLLRPSEKESKLPANPSQPI TMTDWSLSLEVM SQVQVLLYFLQLEAIPADS
KRQSILFSTEV
    
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TRTRPLE - GFP Tag - V

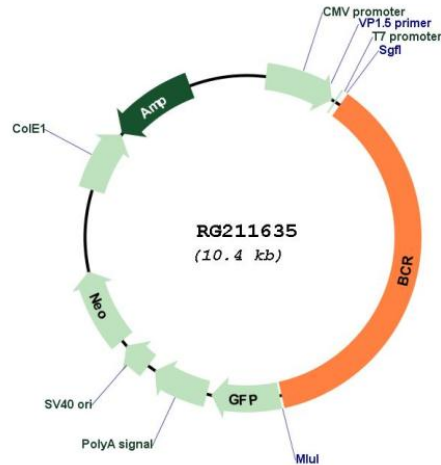
Restriction Sites:

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\\_004327.2](#), [NP\\_004318.2](#)

RefSeq Size: 6927 bp

RefSeq ORF: 3816 bp

Locus ID: 613

UniProt ID: [P11274](#)

Cytogenetics: 22q11.23

<b>Domains:</b>	C2, RhoGAP, RhoGEF, PH
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Chronic myeloid leukemia, Pathways in cancer
<b>Gene Summary:</b>	<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>