

Product datasheet for **RG227207**

ABL2 (NM_001136001) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABL2 (NM_001136001) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABL2
Synonyms:	ABLL; ARG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227207 representing NM_001136001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCAGCAGGTGGGCGCGTCCGGGGAAGCTCCGGGGTCCAGCAGCCTCAGCCCCGCGGGATCCGGG
 GCAGCAGTGCAGCCAGGCCCTCCGGCCGAGCGGGACCCGGCGGGCGCACACAGAGACCGGCTTCAA
 TATCTTACCCAGCATGAAGCTTTCATCGTCCCTATGTTGTGATGTTGAACCCAGGCACTAAATGAG
 GCTATCAGGTGGAGCTCCAAGGAGAAGTCTCGGAGCCACTGAGAGTGACCCTAATCTCTTCGTTGCAC
 TTTATGATTTTGTAGCAAGTGGTGATAACACACTCAGCATCACTAAAGGTGAAAAGCTACGAGTCTTGG
 TTACAACCAGAATGGTGAGTGGAGTGAAGTTCGCTCTAAGAATGGGCAGGGCTGGGTGCCAAGCACTAC
 ATCACCCAGTGAACAGCCTGGAAAAACTCCTGGTACCATGGACCTGTGTACGCAGTGCAGCTGAGT
 ATCTGCTCAGCAGTCTAATCAATGGCAGCTTCTGGTGGCAGAAAGTGAAGTAGCCCTGGGCAGCTGTC
 CATCTCGCTCAGTACGAGGGACGTGTGTACTACAGGATCAATACCACTGCAGATGGCAAGGTGAT
 GTGACTGCTGAGAGCCGCTTTCAGCACCTTGGCAGAGCTTGTACACCATCACTCCACAGTGGCTGATGGGC
 TGGTGACAACATTACACTACCCAGCACCAAGTGAATAAGCCTACAGTCTATGGTGTGTCCCCATCCA
 CGCAAAATGGGAAATGGAGCGAACAGATATTACCATGAAGCACAACTTGGGGGCGGTGAGTATGGAGAG
 GTTTACGTTGGCGTCTGGAAAGAAATACAGCCTTACAGTTGCTGTGAAAACATTGAAGGAAGATACCATGG
 AGGTAGAAGAATCCTGAAAGAAGCTGCAGTAATGAAGGAAATCAAGCATCCTAATCTGGTACAACCTTT
 AGGTGTGTGACTTTGGAGCCACCTTTACATTTGACTGAATACATGCCATACGGGAATTTGCTGGAT
 TACCTCCGAGAATGCAACCGAGAAGAGGTGACTGCAGTTGTGCTGCTCTACATGGCCACTCAGATTTCTT
 CTGCAATGGAGTACTTAGAGAAGAAGAATTTTCATCCATAGAGATCTTGCAGCTCGTAAGCTGCTAGTGGG
 AGAAAACCATGTGGTAAAAGTGGCTGACTTTGGCTTAAGTAGATTGATGACTGGAGACACTTATACTGCT
 CATGCTGGAGCCAAATTTCTATTAAAGTGGACAGCACCAGAGAGTCTTGCTACAATACCTTCTCAATTA
 AATCTGACGTCTGGGCTTTTGGGTATTGTTGTGGGAAATTGCTACCTATGGAATGTCACCATATCCAGG
 TATTGACCTGTCTCAGGTCTATGACCTACTAGAAAAAGGATATCGAATGGAACAGCCTGAGGGATGCCCC
 CCTAAGGTTTATGAACTTATGAGAGCATGCTGGAAGTGGAGCCCTGCCGATAGGCCCTCTTTTGTGAAA
 CACACCAAGCTTTTGAACCATGTTCCATGACTCCAGCATTCTGAAGTCTCTACATTGTGCCAATCA
 GACGTGCATAACATTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227207 representing NM_001136001
 Red=Cloning site Green=Tags(s)

MGQQVGRVGEAPGLQQPQPRGIRGSSAARPSGRRRDPAGRITTEGTFNIFTQHEALHRPYGCDVPEQALNE
 AIRWSSKENLLGATESDPNLFVALYDFVASGDNTLSITKGEKLRVLGYNQNGEWSEVRSKNGQGWVPSNY
 ITPVNSLEKHSWYHGPVSRSAEYLLSSLINGSFLVRESESSPQLSISLRYEGRVYHYRINTTADGKVY
 VTAESRFSTLAELVHHHSTVADGLVTTLHYPAPKCNKPTVYGVSPIHDKWEMERTDITMKHKLGGGQYGE
 VYVGWVKYSLTVAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQLLGVCTLEPPFYIVTEYMPYGNLLD
 YLRECNREEVTAVLLYMATQISSAMEYLEKKNFIHRDLAARNCLVGENHVVKVADFGLSRLMTGDTYTA
 HAGAKFPIKWTAPESLAYNTFSIKSDVWAFVLLWEIATYGMSPYPGIDLQVYDLEKGYRMEQPEGCP
 PKVYELMRACWKWSPADRPFAETHQAFETMFHDSSISEVLLHCANQTCITL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001136001

ORF Size: 1626 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_001136001.1](#), [NP_001129473.1](#)

RefSeq Size: 2140 bp

RefSeq ORF: 1629 bp

Locus ID: 27

UniProt ID: [P42684](#)

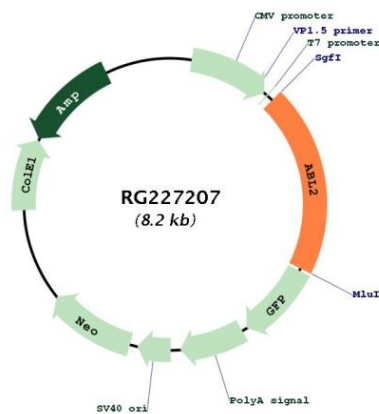
Cytogenetics: 1q25.2

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: ErbB signaling pathway, Viral myocarditis

Gene Summary: This gene encodes a member of the Abelson family of nonreceptor tyrosine protein kinases. The protein is highly similar to the c-abl oncogene 1 protein, including the tyrosine kinase, SH2 and SH3 domains, and it plays a role in cytoskeletal rearrangements through its C-terminal F-actin- and microtubule-binding sequences. This gene is expressed in both normal and tumor cells, and is involved in translocation with the ets variant 6 gene in leukemia. Multiple alternatively spliced transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG227207