

Product datasheet for RC230632

ABL2 (NM_001168238) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABL2 (NM_001168238) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABL2
Synonyms:	ABL1; ARG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC230632 representing NM_001168238 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGCAGGTGGCCGCGTCGGGGAAGCTCCGGGGCTCCAGCAGCCTCAGCCCCGCGGGATCCGGG
GCAGCAGTGCAGCCAGGCCCTCCGGCCGAGCGGGACCCGCGGGGCGCACCACAGAGACCGGCTTCAA
TATCTTACCCAGCATGAAGCTTTCATCGTCCCTATGGTTGTGATGTTGAACCCAGGCACTAAATGAG
GCTATCAGGTGGAGCTCCAAGGAGAAGTCTCGGAGCCACTGAGAGTGACCCTAATCTCTTCGTTGCAC
TTTATGATTTTGTAGCAAGTGGTATAACACACTCAGCATCACTAAAGGTGAAAAGCTACGAGTCCCTGG
TTACAACCAGAAATGGTGAGTGGAGTGAAGTTCGCTCTAAGAATGGGCAGGGCTGGGTGCCAAGCACTAC
ATCACCCAGTGAACAGCCTGAAAAAACTCCTGGTACCATGGACCTGTGTACGCAGTGCAGCTGAGT
ATCTGCTCAGCAGTCTAATCAATGGCAGCTTCTGGTGCAGAAAAGTGAAGTAGCCCTGGGCAGCTGTC
CATCTCGCTCAGGTACGAGGGACGTGTGTACTACAGGATCAATACCACTGCAGATGGCAAGGTGAT
GTGACTGCTGAGAGCCGCTTACGACCTTGGCAGAGCTTGTACACCATCACTCCACAGTGGCTGATGGGC
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CGACAAATGGGAAATGGAGCGAACAGATATTACCATGAAGCACAACTTGGGGCGGTGAGTATGGAGAG
GTTTACGTTGGCGTCTGGAAGAAATACAGCCTTACAGTTGCTGTGAAAACATTGAAGGAAGATACCATGG
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AGGTGTGTGACTTTGGAGCCACCATTTTACATTGTGACTGAATACATGCCATACGGGAATTTGCTGGAT
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TATTGACCTGTCTCAGGTCTATGACCTACTAGAAAAGGATATCGAATGGAACAGCCTGAGGGATGCCCC



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CCTAAGGTTTATGAACTTATGAGAGCATGCTGGAAGTGGAGCCCTGCCGATAGGCCCTCTTTTGCTGAAA
CACACCAAGCTTTTAAAACCATGTTCCATGACTCCAGCATTTCTGAAGAGGTAGCTGAGGAGCTGGGAG
AGCCGCCCTCCTCGTCATCTGTTGTTCCATACCTGCCCGGCTACCTATACTTCTTCCAAGACTCGGACA
CTGAAGAAACAGGTGGAGAACAAGGAGAACATTGAAGGGGCACAAGATGCCACAGAAAATCTGCTTCCA
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AATGTGGACAGGGCCAATGACATGCTTCCAAAAAATCAGAGGAAAGTGTGCTCCAAGCAGGGAGAGAC
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GAAATCAGTGATGTGGTGCAGAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230632 representing NM_001168238

Red=Cloning site Green=Tags(s)

MGQQVGRVGEAPGLQQPQPRGIRGSSAARPSGRRRDPAGRTTETGFNIFTQHEALHRPYGCDVPEPQALNE
AIRWSSKENLLGATESDPNLFVALYDFVASGDNTLSITKGEKLRVLGYNQNGEWSEVRSKNGQGWVPSNY
ITPVNSLEKHSWYHGPVSRSAEYLLSSLINGSFLVRESESSPGQLSISLRYEGRVYHYRINTTADGKVV
VTAESRFSTLAEVHHHSTVADGLVTTLHYPAPKCNKPTVYGVSPIDHKWEMERTDITMKHKLGGGQYGE
VYVGVWKKYSLTAVKTLKEDTMEVEEFLKEAAMKEIKHPNLVQLLGVCTLEPPFYIVTEYMPYGNLLD
YLRECNREEVTAVLLYMATQISSAMEYLEKKNFIHRDLAARNCLVGENHVVKVADFGLSRLMTGDTYTA
HAGAKFPIKWTAPESLAYNTFSIKSDVWAFVLLWEIATYGMSPYPGIDLQVYDLEKGYRMEQPGECP
PKVYELMRACWKWSPADRPFAETHQAFETMFHDSSIIEVAEELGRAASSSSVVPYLPRLPILPSKTRT
LKKQVENKENIEGAQDATENSASSLAPGFIRGAQASSGSPALPRKQRDKSPSSLLEDAKETCFTRDRKGG
FFSSFMKRNAPTPPKRSSSFREMENQPHKKYELTGLPEQDRMAMTLPRNCQRSKLQLERTVSTSSQPEE
NVDRANDMLPKKSEESAAPSRERPKAKLLPRGATALPLRTPSGDLAITEKDPPGVGVAGVAAAPKGEKN
GGARLGMAGVPEDGEQPGWSPAKAAPVLPPTHNHKVPVLSPTLKHTPADVQLIGTDSQGNKFKLLSEH
QVTSSGDKDRPRRVKPKAPPPPPVMRLQHPISCDPTEPTALTAGQSTSETQEGGKKAALGAVPISG
KAGRPVMPPPQVPLPTSSISPAKMANGTAGTKVALRKTQAAEKISADKISKEALLECADLLSSALTEPV
PNSQLVDTGHQLLDYCSGYVDCIPQTRNKFVREAVSKLELSLQELQVSSAAAGVPGTNPVNLNLLSCVQ
EISDVVQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2102_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001168238

ORF Size: 3174 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_001168238.2](#)

RefSeq ORF: 3177 bp

Locus ID: 27

UniProt ID: [P42684](#)

Cytogenetics: 1q25.2

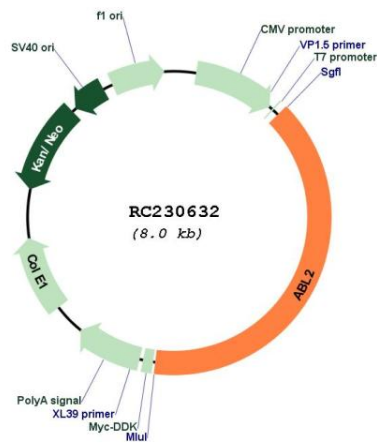
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: ErbB signaling pathway, Viral myocarditis

MW: 116.3 kDa

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 RC230632