

Product datasheet for RC230629

ABL2 (NM_001168239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABL2 (NM_001168239) 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:	>RC230629 representing NM_001168239 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCTTGGGACAGTTCTCCTTCCACCTAATAGTTATGGCAGAGATCAGGACACTTCACTTTGCTGCC
TGTGCACTGAGGCCTCAGAATCTGCTCTACCCGACTTAACAGAAGCTTTCATCGTCCCTATGGTTGTGA
TGTTGAACCCAGGCACTAAATGAGGCTATCAGGTGGAGCTCCAAGGAGAACTTGTCTGGAGCCACTGAG
AGTGACCTAATCTCTTCTGTTGCACTTTATGATTTTGTAGCAAGTGGTGATAACACACTCAGCATCACTA
AAGGTGAAAAGCTACGAGTCCTTGGTTACAACCAAGTGGTGGAGTGAAGTTCGCTCTAAGAATGG
GCAGGGCTGGGTGCCAAGCAACTACATACCCCAAGTGAACAGCCTGGAAAAACACTCCTGGTACCATGGA
CCTGTGTACGCAAGTGCAGCTGAGTATCTGCTCAGCAGTCTAATCAATGGCAGCTTCTGGTGGCAGAAA
GTGAGAGTAGCCCTGGGAGCTGTCCATCTCGCTCAGGTACGAGGGACGTGTGTATCACTACAGGATCAA
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CATCACTCCACAGTGGCTGATGGGCTGGTGACAACATTACACTACCCAGCACCAAGTGTAAAGCCTA
CAGTCTATGGTGTGTCCCCATCCACGACAAATGGGAAATGGAGCGAACAGATATTACCATGAAGCACAA
ACTTGGGGCGGTCAGTATGGAGAGGTTTACGTTGGCGTCTGGAAGAAAACAGCCTTACAGTTGCTGTG
AAAACATTGAAGGAAGATACCATGGAGGTAGAAGAATTCCTGAAAGAAGCTGCAGTAATGAAGGAAATCA
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CTTGCCTACAATACCTTCTCAATTAATCTGACGCTCTGGGCTTTTGGGGTATTGTTGTGGGAAATGCTA
CCTATGGAATGTCACCATATCCAGGATTGACCTGTCTCAGGTCTATGACCTACTAGAAAAAGGATATCG
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GCCGATAGGCCCTCTTTTGTGAAACACACCAAGCTTTTCAAACCATGTTCCATGACTCCAGCATTCTG
 AAGAGGTAGCTGAGGAGCTTGGGAGAGCCGCTCCTCGTCATCTGTTGTTCCATACCTGCCCCGGCTACC
 TATACTTCCTTCCAAGACTCGGACACTGAAGAAACAGGTGGAGAACAAGGAGAATTGAAGGGGCACAA
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 ACATCTTCCATCTCGCCAGCCAAAATGGCCAATGGCACAGCAGGTAAGTGGCTCTGAGAAAAACCA
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 TGAACCTCAGCCTGCAGGAGCTACAGGTTTCTTCCAGCAGCTGCTGGTGTGCCCGGACAAACCTGTCT
 TAATAACTTATTGTCATGTGTACAGGAAATCAGTGATGTGGTGCAGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230629 representing NM_001168239
 Red=Cloning site Green=Tags(s)

MVLGTVLLPPNSYGRDQDTSLCCLCTEASESALPDLTEALHRPYGCDVEPQALNEAIRWSSKENLLGATE
 SDPNLFVALYDFVASGDNTLSITKGEKLRVLGYNQNGEWEVRSKNGQGWVPSNYITPVNSLEKHSWYHG
 PVSRSAAEYLLSSLINGSFLVRESESSPGQLSISLRYEGRVYHYRINTTADGKVYVTAESRFSTLAEVH
 HHSTVADGLVTTLHYPAPKCNKPTVYGVSPIDHKWEMERTDITMKHKLGGGQYGEVYVGVWKKYSLTVAV
 KTLKEDTMEVEEFLKEAAMKEIKHPNLVQLLVGCTLEPPFYIVTEYMPYGNLLDYLRECNREEVTAVVL
 LYMATQISSAMEYLEKKNFIHRDLAARNCLVGENHVVKVADFGLSRLMTGDTYTAHAGAKFPIKWTAPES
 LAYNTFSIKSDVWAFVLLWEIATYGMSPYPGIDLQVYDLEKGYRMEQPEGCPKPYELMRACWKWSP
 ADRPSFAETHQAFETMFHDSSISEEVAEELGRAASSSSVVPYLPRLPILPSKTRTLKKQVENKENIEGAQ
 DATENSASSLAPGFIRGAQASSGPALPRKQRDKSPSSLLEDAKETCFTRDRKGGFFSSFMKRNAPTPP
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 SAAPSRERPKAKLLPRGATALPLRTPSGDLAITEKDPPGVGVAGVAAAPKGEKNGGARLGMAGVPEDGE
 QPGWSPAKAAPVLPPTHNHKVPVLSPTLKHTPADVQLIGTDSQGNKFKLLSEHQVTSQGDKDRPRRVK
 PKCAPPMPVLRLLQHPSICSDPTEPTALTAGQSTSETQEGGKKAALGAVPISGKAGRPVMPVPPVPLP
 TSSISPAKMANGTAGTKVALRKTKQAAEKISADKISKEALLECADLLSSALTEPVNSQLVDTGHQLLDY
 CSGYVDCIPQTRNKFAFREAVSKLELSLQELQVSSAAAGVPGTNPVNLNLLSCVQEI SDVVQR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2059_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001168239

ORF Size: 3129 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_001168239.2](#)

RefSeq Size: 11585 bp

RefSeq ORF: 3132 bp

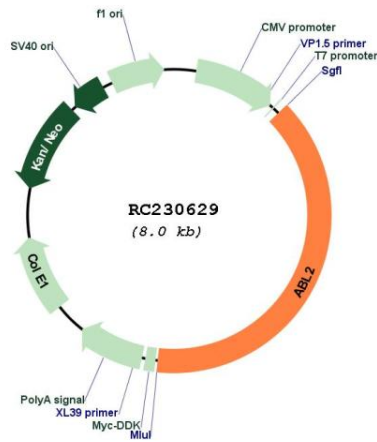
Locus ID: 27

UniProt ID: [P42684](#)

Cytogenetics: 1q25.2
Protein Families: Druggable Genome, Protein Kinase
Protein Pathways: ErbB signaling pathway, Viral myocarditis
MW: 114.6 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 RC230629