

Product datasheet for **RG230629**

ABL2 (NM_001168239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABL2 (NM_001168239) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABL2
Synonyms:	ABL1; ARG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230629 representing NM_001168239 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTTGGGACAGTTCTCCTTCCACCTAATAGTTATGGCAGAGATCAGGACACTTCACTTTGCTGCC
TGTGCACTGAGGCCTCAGAATCTGCTCTACCCGACTTAACAGAAGCTTTCATCGTCCCTATGGTTGTGA
TGTTGAACCCAGGCACTAAATGAGGCTATCAGGTGGAGCTCCAAGGAGAACTTGTCTGGAGCCACTGAG
AGTGACCTAATCTCTTCTGTTGCACTTTATGATTTTGTAGCAAGTGGTGATAACACACTCAGCATCACTA
AAGGTGAAAAGCTACGAGTCCTTGGTTACAACCAAGTGGTGGAGTGAAGTTCGCTCTAAGAATGG
GCAGGGCTGGGTGCCAAGCAACTACATCACCCAGTGAACAGCCTGGAAAAACACTCCTGGTACCATGGA
CCTGTGTACGCAAGTGCAGCTGAGTATCTGCTCAGCAGTCTAATCAATGGCAGCTTCTGGTGGCAGAAA
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TACCACTGCAGATGGCAAGGTGTATGTGACTGCTGAGAGCCGCTTACGACACCTTGGCAGAGCTTGTACAC
CATCACTCCACAGTGGCTGATGGGCTGGTGACAACATTACACTACCCAGCACCAAGTGTAAAGCCTA
CAGTCTATGGTGTGTCCCCATCCACGACAAATGGGAAATGGAGCGAACAGATATTACATGAAGCACAA
ACTTGGGGCGGTCAGTATGGAGAGGTTTACGTTGGCGTCTGGAAGAAATACAGCCTTACAGTTGCTGTG
AAAACATTGAAGGAAGATACCATGGAGGTAGAAGAATTCCTGAAAGAAGCTGCAGTAATGAAGGAAATCA
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CATGCCATACGGGAATTTGCTGGATTACCTCCGAGAATGCAACCGAGAAGAGGTGACTGCAGTTGTGCTG
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AATGGAACAGCCTGAGGGATGCCCCCTAAGGTTTATGAACCTATGAGAGCATGCTGGAAGTGGAGCCCT



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GCCGATAGGCCCTCTTTTGTGAAACACACCAAGCTTTTAAAACCATGTTCCATGACTCCAGCATTCTG
AAGAGGTAGCTGAGGAGCTTGGGAGAGCCGCTCCTCGTCATCTGTTGTTCCATACCTGCCCCGGCTACC
TATACTTCCTTCCAAGACTCGGACACTGAAGAAACAGGTGGAGAACAAGGAGAACATTGAAGGGGCACAA
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ACATCTTCCATCTCGCCAGCCAAAATGGCCAATGGCACAGCAGGTAAGTGGCTCTGAGAAAAACCA
AACAGGCCGCTGAGAAAACTCAGCAGACAAAAACAGCAAGAGGGCCCTGCTGGAATGTGCTGACCTACT
GTCCAGTGCACCTACGGAACTGTGCCAACAGCCAGCTGGTAGACACTGGACACCAGCTGCTTGACTAC
TGCTCAGGCTATGTGACTGCATCCCTCAAACCTCGCAACAAATTTGCCTTCCGAGAGGCTGTGAGCAAAC
TGGAACTCAGCCTGCAGGAGCTACAGGTTTCTTACAGAGCTGCTGGTGTGCCCGGACAAACCTGTCT
TAATAACTTATTGTCATGTGTACAGGAAATCAGTGATGTGGTGCAGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230629 representing NM_001168239
Red=Cloning site Green=Tags(s)

MVLGTVLLPPNSYGRDQDTSLLCCLTEASESALPDLTEALHRPYGCDVEPQALNEAIRWSSKENLLGATE
SDPNLFVALYDFVASGDNTLSITKGEKLRVLGYNQNGEWSEVRSKNGQGWVPSNYITPVNSLEKHSWYHG
PVRSAAEYLLSSLINGSFLVRESESSPQLSISLRYEGRVYHYRINTTADGKVYVTAESRFSTLAEVH
HHSTVADGLVTLHYPAPKCNKPTVYGVSPIDHKWEMERTDITMKHKLGGGQYGEVYVGVWKKYSLTVAV
KTLKEDTMEVEEFLKEAAVMKEIKHPNLVQLLGVCTLEPPFYIVTEYMPYGNLLDYLRECNREEVTAVVL
LYMATQISSAMEYLEKKNFIHRDLAARNCLVGENHVVKVADFGLSRLMTGDTYTAHAGAKFPIKWTAPES
LAYNTFSIKSDVWAFGVLLWEIATYGMSPYPGIDLQVYDLLEKGYRMEQPEGCPKPYELMRACWKWSP
ADRPFAETHQAFETMFHDSSISEEVAEELGRAASSSSVVPYLPRLPILPSKTRTLKQVENKENIEGAQ
DATENSASSLAPGFIRGAQASSGSPALPRKQRDKSPSSLEDAKETCFTRDRKGGFFSSFMKRNAPTPP
KRSSSFREMQPHKKYELTGLPEQDRMAMTLPRNCQRSKQLERTVSTSSQPEENVDRANDMLPKKSEE
SAAPSRERPKAKLLPRGATALPLRTPSGDLAITEKDPPGVGVAGVAAAPKGEKNGGARLGMAGVPEDGE
QPGWSPAKAAPVLPPTHNHKVPVLIPTLKHTPADVQLIGTDSQGNKFKLLSEHQVTSQGDKDRPRVK
PKCAPPVPMRLLQHPSICSDPTEPTALTAGQSTSETQEGGKKAALGAVPISGKAGRPVMPVPPVPLP
TSSISPAMANGTAGTKVALRKTKQAAEKISADKISKEALLECADLLSSALTEPVNSQLVDTGHQLLDY
CSGVYDCIPQTRNKFAFREAVSKLELSLQELQVSSAAAGVPGTNPVNLNLLSCVQEISDVVQR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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:	<ol style="list-style-type: none">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
Gene Summary:	<p>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]</p>