

Product datasheet for **SC323645**

ABL2 (NM_007314) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABL2 (NM_007314) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABL2
Synonyms:	ABL1; ARG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007314, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCAGCAGGTGGGCCGCTCGGGGAAGCTCCGGGGCTCCAGCAGCCTCAGCCCCGGGGATCCGGG
GCAGCAGTGCAGCCAGGCCCTCCGGCCGAGCGGGACCCGGCGGGGCGCACCACAGAGACCGGCTTCAA
TATCTTACCCAGCATGATCACTTTGCCAGCTGTGTGGAGGATGGATTTGAGGGAGACAAGACTGGAGGC
AGTAGTCCAGAAGCTTTGCATCGTCCCTATGGTTGTGATGTTGAACCCAGGCACTAAATGAGGCTATCA
GGTGGAGCTCCAAGGAGAACTTGTCTGGAGCCACTGAGAGTGACCCTAATCTCTTCGTTGCACTTTATGA
TTTTGTAGCAAGTGGTGATAACACACTCAGCATCACTAAAGGTGAAAAGCTACGAGTCTTGGTTACAAC
CAGAATGGTGAGTGGAGTGAAGTTCGCTCTAAGAATGGGCAGGGCTGGGTGCCAAGCAACTACATCACCC
CAGTGAACAGCCTGGAAAAACACTCCTGGTACCATGGACCTGTGTACGCAGTGCAGCTGAGTATCTGCT
CAGCAGTCAATCAATGGCAGCTTCTGGTGCAGAAAAGTGAGAGTAGCCCTGGGCAGCTGTCCATCTCG
CTCAGGTACGAGGGACGTGTGTATCACTACAGGATCAATACCACTGCAGATGGCAAGGTGTATGTGACTG
CTGAGAGCCGCTTTCAGCACCTTGGCAGAGCTTGTACACCATCACTCCACAGTGGCTGATGGGCTGGTGAC
AACATTACACTACCCAGCACCCAAGTGTAAAGCCTACAGTCTATGGTGTGTCCCCATCCACGACAAA
TGGGAAATGGAGCGAACAGATATTACCATGAAGCACAACCTTGGGGCGGTCAGTATGGAGAGGTTTACG
TTGGCGTCTGGAAGAAAACAGCCTTACAGTTGCTGTGAAAACATTGAAGGAAGATACCATGGAGGTAGA
AGAATTCCTGAAAGAAGCTGCAGTAATGAAGGAAATCAAGCATCCTAATCTGGTACAACCTTTAGGTGTG
TGTAATTTGGAGCCACCATTTTACATTGTGACTGAATACATGCCATACGGGAATTTGCTGGATTACCTCC
GAGAATGCAACCGAGAAGAGGTGACTGCAGTTGTGCTGCTCTACATGGCCACTCAGATTTCTTCTGCAAT
GGAGTACTTAGAGAAGAAGAATTTATCCATAGAGATCTTGCAGCTCGTAACTGCCTAGTGGGAGAAAAAC
CATGTGGTAAAAGTGGCTGACTTTGGCTTAAAGTAGATTGATGACTGGAGACACTTATACTGCTCATGCTG
GAGCCAAATTTCTATTAAGTGGACAGCACCAGAGAGTCTTGCCTACAATACCTTCTCAATTAATCTGA
CGTCTGGGCTTTTGGGTATTGTTGTGGGAAATGCTACCTATGGAATGTCACCATATCCAGGTATTGAC
CTGTCTCAGTCTATGACCTACTAGAAAAGGATATCGAATGGAACAGCCTGAGGGATGCCCCCTAAGG
TTTATGAACCTTATGAGAGCATGCTGGAAGTGGAGCCCTGCCGATAGGCCCTCTTTTGTGAAACACACCA

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AGCTTTTGAACCATGTTCCATGACTCCAGCATTTCTGAAGAGGTAGCTGAGGAGCTTGGGAGAGCCGCC
TCCTCGTCATCTGTTGTTCCATACCTGCCCCGGCTACCTATACTTCTTCCAAGACTCGGACACTGAAGA
AACAGGTGGAGAACAAGGAGAACATTGAAGGGGCAACAAGATGCCACAGAAAATTCTGTTCCAGTTTAGC
ACCAGGGTTTCATCAGAGGTGCACAGGCCTCTAGTGGATCCCCAGCACTGCCTCGAAAGCAAAGAGACAAG
TCACCCAGCAGCCTCTTGAAGATGCCAAAGAGACATGCTTACCAGGGATAGGAAGGGGGGCTTCTTCA
GCTCCTTCATGAAGAAGAGAAAATGCTCCTACACCCCCAAACGCAGCAGCTCCTCCGAGAAAATGGAGAA
TCAGCCCCATAAGAAAATACGAACCTCAGGGTAACCTTCTCATCTGTTGCTTCTCTACAGCATGCTGATGGG
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GCTGCTCCAAGCAGGGAGAGACAAAAGCCAAGTTATTGCCAGAGGAGCCACAGCTCTTCTCTCAGAA
CACCTCTGGGGATCTAGCCATTACAGAGAAGGACCCTCCAGGGTGGGAGTGGTGGAGTGGCAGCTGC
CCCAAGGGTAAAGAGAAGAATGGTGGGCACGACTTGGGATGGCTGGAGTTCAGAGGATGGAGAGCAG
CCGGGCTGGCCTTCTCCAGCCAAGGCTGCCCCGCTCTCCAACCACTCAACAACCAAAGTGCCAGTCC
TTATCTCACCCACTCTGAAACACACTCCAGCTGACGTGCAGCTCATTGGCACAGACTCTCAGGGGAATAA
ATTCAAGCTTTATCTGAGCATCAGGTCACATCCTCTGGAGACAAGGACCCGACCCGACGGGTAACCA
AAGTGTGCCCCACCCACCACAGTGTGAGACTACTGCAGCATCCGTCCATCTGCTCAGACCCTACAG
AAGAGCCAACGCCCTAACTGCAGGACAGTCCACATCAGAAACACAGGAAGGAGGAAAGAAGGCAGCTCT
GGGCGCAGTGGCCATCAGTGGGAAAGCTGGGAGGCCAGTATGCTCCACCTCAAGTGCCTCTGCCCACA
TCTTCCATCTGCCAGCCAAAATGGCCAATGGCACAGCAGTACTAAAGTGGCTCTGAGAAAAACCAAG
AGGCCGCTGAGAAAAATCTCAGCAGACAAAATCAGCAAAGAGGCCCTGCTGGAATGTGCTGACCTACTGTC
CAGTGCACCTACGGAACCTGTGCCAACAGCCAGCTGGTAGACTGGACACCAGCTGCTTGACTACTGC
TCAGGCTATGTGGACTGCATCCCTCAAACCTCGAACAAATTTGCCTTCCGAGAGGCTGTGAGCAAACCTGG
AACTCAGCCTGCAGGAGCTACAGGTTTCTTTCAGCAGCTGCTGGTGTGCCCGGGACAAACCTGTCCTTAA
TAACCTATTGTACATGTGTACAGGAAATCAGTGATGTGGTGCAGAGGTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_007314 unedited
 CCCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA
 CCGTCAGAAATTTGTAATACGACTCACTATAGGGCGCCGCAATTCGGCACGAGGGGCGGCTGCCGTGA
 GGAGGCCGGGTGCGGAGCCGCGGTGGCCAGCCACTCAGGGCCAGGGCCTGGGCTGGGAGGGAGAGACC
 GGAGCAGCGCCAGGAGCCGAGGCGGAGCCGAGGAGGAATGTGACCAGGGGTGCGCGGGGGCGCGGGAG
 TACGCGAGAGCAGGGATGGGCAGCAGTGGCCGCGTCCGGGAAGCTCCGGGGCTCCGCAGCCTTATCCC
 CGCGGGATCCGGGAGCAGTGCACCAGGCCCTCGGCCGAGGCGGACCCGGCGGGGCGCACCAAGAAAC
 CGTTCATATCTTACCAGCATGAAACGGAGGTCTAATAAGGTTGCTAAGGCTGGTCTAAATTCCTAGGT
 CAGGGATCCTCGCCTCGGCCTCCAGTGGTGAATAAGCCTGAACCCATGGCGAAGGAAGCTTGCTATAA
 ACCTTTCGATCCTTTGCACTTGGGGGGAGGT

Kinase Domain Sequence:

>SC323645 kinase domain raw sequence. By performing [BLASTX](#) analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation
 TAGCATCTTGGGGCGGTGAGTATGGAGAGGTTTACGTTGGCGTCTGGAAGAAAATACAGCCTTACAGTTG
 CTGTGATGACATTGAAGGAAGATACCATGGAGGTAGAAGAATTCCTGAAAGAAAGCTGCAGTAATGAAGGA
 AATCAAGCATCCTAATCTGGTACAACTTTAGGTGTGTACTTTGGAGCCACCATTTTACATTGTGACT
 GAATACATGCCATACGGGAATTTGCTGGATTACCTCCGAGAATGC

Restriction Sites:

Please inquire

ACCN:

NM_007314

Insert Size:

4350 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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_007314.1 , NP_009298.1
RefSeq Size:	3849 bp
RefSeq ORF:	3549 bp
Locus ID:	27
UniProt ID:	P42684
Cytogenetics:	1q25.2
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
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> <p>Transcript Variant: This variant (b) represents the longest transcript and encodes the longest isoform (b, also known as 1BLCTL).</p>