

Product datasheet for SC116914

c Abl (ABL1) (NM_005157) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	c Abl (ABL1) (NM_005157) Human Untagged Clone
Tag:	Tag Free
Symbol:	c Abl
Synonyms:	ABL; BCR-ABL; bcr/abl; c-ABL; c-ABL1; CHDSKM; JTK7; p150; v-abl
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116914 sequence for NM_005157 edited (data generated by NextGen Sequencing)

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ATGTTGGAGATCTGCCTGAAGCTGGTGGGCTGCAAATCCAAGAAGGGCTGCCTCGTCC
TCCAGCTGTTATCTGGAAGAAGCCCTTCAGCGCCAGTAGCATCTGACTTTGAGCCTCAG
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GTGAAGGAAATCAGTGACATAGTGCAGAGGTAG
    
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Clone variation with respect to NM_005157.4
 3324 a=>g

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005157 unedited
GGTAACGTTCANATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGCGGA
GACGCGGGCGCGGCCATGGGCGGGCGCGGGCGCGGGGGCGGCGGTGAGGGCGGCCTGGC
GGGGCCGGGGGCGCCCGGGGGGGCGCGGGCCGAGCCGGGCCTGAGCCGGGCCCGCGGA
CCGAGCTGGGAGAGGGGCTCCGGCCCCGACGTGCTGGCGCGGAAAATGTTGGAGATC
TGCTGAAAGTGGTGGGCTGCAATCCAAGAAGGGGCTGTCTCGTCTCCAGCTGTTAT
CTGGAAGAAGCCCTTCAGCGCCAGTAGCATCTGACTTTGAGCCTCAGGGTCTGAGTGAA
GCCGCTCGTTGGAACCCAAGGAAAACCTTCTCGCTGGACCCAGTGAAAAAGCCCAAC
CTTTTCGTTGCACTGTATGATTTTGTGGCCAGTGGAGATAACACTCTAAGCATAACTAAA
GGTGAAAAGCTCCGGTCTTAGGCTATAATCACAATGGGGAATGGTGTGAAGCCAAACC
AAAAATGGCCAAGGCTGGGTCCCAAGCAACTACATCACGCCAGTCAACAGTCTGGAGAAA
CACTCCTGGTACCATGGGCTGTGTCCCCAATGCCGCTGAGTATCTGCTGAGCAGCGGG
ATCAATGGCAGCCTTCTTGGTGCCTGAGAGTGAGAGCAGTCTGGCCAAAGTCCATCTCG
CTGAGATACAAAGGGGGGTGTCCATTACAGGATCAACACTGCTTCTGATGGCAAGCTCT
ACTTCTCCTCCGAGAGCCGCTTAAACACCTGGCCGAGTTGTTTCATCATATTCAGGGGGC
CGACGGGCTTCTCCCCGCTCCTTATCAGCCCCAAGCCAACAAGCCACTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005157 unedited NCCCCCTTGGGGATGGCAATCCCATTCCAGTANAGCACTGGGGCAGGGTCACAGGNATG CCACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTT TTTTTTTTTTTTTCTAATGTAAACACTGATTTATTTAAAAAATACTACAGAGGACAGA TTTGGATTCAAAAAAACACAGAGAATCATATACATTATCAAAATGCACTGGACCCCGA GAAGCAGAGGGGGAGCCACCACAGGCCCCCGAGGGGGCAGGGCAGGACGCTATGCACACG CCACTTAGAAAAAGAGCGTCTATAAAAGATGCATACCAAGAGATACGTGTAATAATAGTG GCACATCACGTTAACAAAAGGAAGGGACCAGTATCCTCATGGAGACAGGCAGTCGGGGGA CCTGGGTGGGCGCTTTGCTCTGTCTTCAAGGCCGCTGTCGGTGACTAGTGCCTCCCTCCG GCTGCGTCACAGCCGTCGGGGGCAAAGAGGTGATGTGCTGTAAGAACCGCATAAAACGAT CCAGAGGAAACATTTCTATCAGAAAAATAAGTACAAGTTTAGGTGATGAGCGTAAAGC TAGGGCCTGTGCGAGGCTGCTGGCACGAGGCGGTATGAAGGGGTGGGAAGGTGGCTTCTC CCGGCGTGAAGCCTCAGGGGCGGCCACCTGCCACTGCTCTCGGAGTTAGCTGCTCTGTC AAGGTCCAGGAGACCCCGGTCCCTGCCAGAGTCACAGCCCCGTATCTGGGCTCCGGC CTGGGGCAGCCTCGGGGAGAAGATGGCAGGCGTCTCTGTGAAAACGTGAGGCTTTCAGG NGTCCNGTTGTGTTTTCTAAACCTCCCTGATGACCCCAACAACATG
Restriction Sites:	Please inquire
ACCN:	NM_005157
Insert Size:	6000 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).
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_005157.3 , NP_005148.2
RefSeq Size:	5384 bp
RefSeq ORF:	3393 bp
Locus ID:	25
UniProt ID:	P00519
Cytogenetics:	9q34.12
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	Axon guidance, Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Neurotrophin signaling pathway, Pathogenic Escherichia coli infection, Pathways in cancer, Viral myocarditis

Gene Summary:

This gene is a protooncogene that encodes a protein tyrosine kinase involved in a variety of cellular processes, including cell division, adhesion, differentiation, and response to stress. The activity of the protein is negatively regulated by its SH3 domain, whereby deletion of the region encoding this domain results in an oncogene. The ubiquitously expressed protein has DNA-binding activity that is regulated by CDC2-mediated phosphorylation, suggesting a cell cycle function. This gene has been found fused to a variety of translocation partner genes in various leukemias, most notably the t(9;22) translocation that results in a fusion with the 5' end of the breakpoint cluster region gene (BCR; MIM:151410). Alternative splicing of this gene results in two transcript variants, which contain alternative first exons that are spliced to the remaining common exons. [provided by RefSeq, Aug 2014]

Transcript Variant: This variant (a) includes an alternate 5' terminal exon (exon 1a instead of exon 1b), and it thus differs in the 5' UTR and 5' coding region, compared to variant b. The encoded isoform (a), which is localized in the nucleus, has a distinct N-terminus and is shorter than isoform b.