

Product datasheet for **SC316864**

ABL2 (NM_001100108) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABL2 (NM_001100108) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABL2
Synonyms:	ABLL; ARG; FLJ22224; FLJ31718; FLJ41441
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316864 representing NM_001100108. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
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 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** Sgfl-Mlul
- Plasmid Map:** □
- ACCN:** NM_001100108
- Insert Size:** 3504 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001100108.1](#)

RefSeq Size: 11927 bp

RefSeq ORF: 3504 bp

Locus ID: 27

Cytogenetics: 1q25.2

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: ErbB signaling pathway, Viral myocarditis

MW: 126.7 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]
Transcript Variant: This variant (c) has an alternate 5' exon, as compared to variant b. The resulting isoform (c, also known as 1ALCTL) has a distinct and shorter N-terminus compared to isoform b.