

Product datasheet for **RG220556**

c Abl (ABL1) (NM_007313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	c Abl (ABL1) (NM_007313) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	c Abl
Synonyms:	ABL; BCR-ABL; bcr/abl; c-ABL; c-ABL1; CHDSKM; JTK7; p150; v-abl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220556 representing NM_007313 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGCAGCCTGAAAAAGTACTTGGGGACCAAAGAAGGCCAAGCTTGCCTGCCCTGCATTTTATCA
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ATGCGAGCATGTTGGCAGTGAATCCCTCTGACCGGCCCTCCTTTGCTGAAATCCACCAAGCCTTTGAAA
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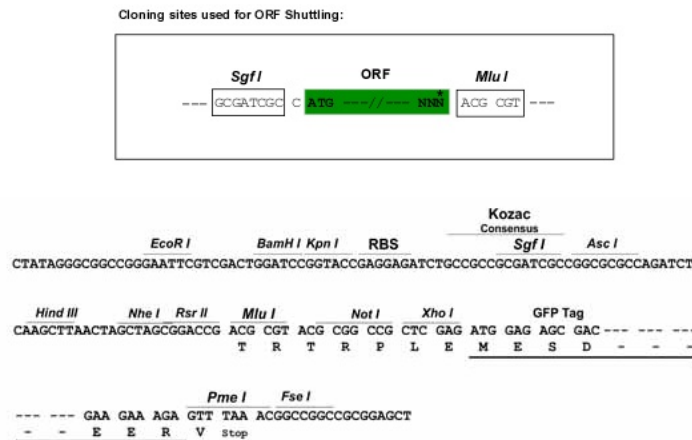
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220556 representing NM_007313
 Red=Cloning site Green=Tags(s)

MGQQPGKVLGDQRRPSLPALHFIKGAGKKESSRHGGPHCNVFEHEALQRPVASFEPQGLSEAARWNSK
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 FNTLAELVHHHSTVADGLITTLHYAPKRNKPTVYGVSPNYDKWEMERTDITMKHKLGGQYGEVYEGVW
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 PIKWTAPESLAYNKF SIKSDVWAFVLLWEIATYGMSPYPGIDL SQVYELLEKDYRMERPEGCPEKYVEL
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 ATPKPKSAKPSGTPISPAPVPSTLPSASSALAGDQPSSTAFIPLISTRVSLRKRQPPERIASGAIKGV
 VLDSTEALCLAISRNEQMASHAVLEAGKNLYTFVSYVDSIQMRNKF AFREAINKLENNLRELQICP
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TRTRPLE - GFP Tag - V

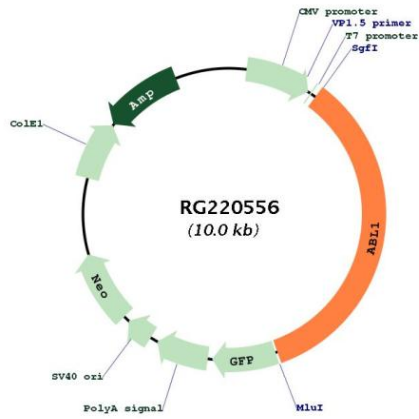
Restriction Sites: SgfI-MluI
 Cloning Scheme:



ACCN: NM_007313
 ORF Size: 3447 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:	<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_007313.2 , NP_009297.2
RefSeq Size:	5881 bp
RefSeq ORF:	3450 bp
Locus ID:	25
UniProt ID:	P00519
Cytogenetics:	9q34.12
Domains:	pkinase, SH2, TyrKc, SH3, S_TKc
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]

Product images:



Circular map for RG220556