

Product datasheet for **RG215562**

CD8B (NM_172213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD8B (NM_172213) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD8B
Synonyms:	CD8B1; LEU2; LY3; LYT3; P37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215562 representing NM_172213 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCCGCGGCTGTGGCTCCTCCTGGCCGCGCAGCTGACAGTTCTCCATGGCAACTCAGTCTCCAGC
AGACCCCTGCATACATAAAGGTGCAAACCAACAAGATGGTGATGCTGCTCCTGCGAGGCTAAAATCTCCCT
CAGTAACATGCGCATCTACTGGCTGAGACAGCGCCAGGCACCGAGCAGTGACAGTCACCACGAGTTCCTG
GCCCTCTGGGATCCGCAAAGGGACTATCCACGGTGAAGAGGTGGAACAGGAGAAGATAGCTGTGTTTC
GGGATGCAAGCCGGTTCATTCTCAATCTACAAGCGTGAAGCCGGAAGACAGTGGCATCTACTTCTGCAT
GATCGTCGGGAGCCCGAGCTGACCTTCGGAAGGGAACCTCAGCTGAGTGTGGTTGATTTCTTCCACC
ACTGCCAGCCCAAGAAGTCCACCCTCAAGAAGAGAGTGTGCCGGTTACCCAGGCCAGAGACCCAGA
AGGGCCCACTTTGTAGCCCATCACCTTGGCCTGCTGGTGGCTGGCGTCTGGTTCTGCTGGTTTCCCT
GGGAGTGGCCATCCACCTGTGCTGCCGGCGGAGGAGCCCGCTTCGTTTCATGAAACAGCCTCAAGGG
GAAGGTATACAGGAACCTTTGCCCAATGCCTGCATGGATACTACAGCAATACTACAACCTCACAGA
AGCTGCTTAACCCATGGATCCTGAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215562 representing NM_172213
Red=Cloning site Green=Tags(s)

MRPRLWLLAAQLTVLHGNSVLQQTTPAYIKVQTNKMVMLSCEAKISLSNMRIYWLQRQAPSSDSHHEFL
 ALWDSAKGTIHGEEVEQEKIAVFRDASRFILNLT SVKPEDSGIYFCMIVGSPELTFGKGTQLSVVDFLPT
 TAQPTKKSTLKKRVCRLRPETQKGPLCSPITLGLLVAGVLVLLVSLGVAIHLCCRRRRARLRFMKQPQG
 EGISGTFVPQCLHGYYSNNTTTSQKLLNPWILKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172213

ORF Size: 729 bp

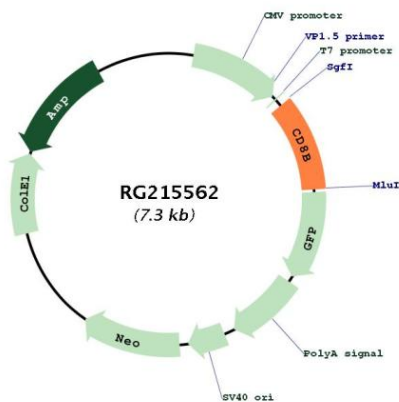
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_172213.1 , NP_757362.1
RefSeq Size:	1065 bp
RefSeq ORF:	732 bp
Locus ID:	926
UniProt ID:	P10966
Cytogenetics:	2p11.2
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway
Gene Summary:	<p>The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 beta chain isoforms. Multiple alternatively spliced transcript variants encoding distinct membrane associated or secreted isoforms have been described. A pseudogene, also located on chromosome 2, has been identified. [provided by RefSeq, May 2010]</p>

Product images:



Circular map for RG215562