

Product datasheet for **RG206608**

CD8A (NM_001768) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: CD8A (NM_001768) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: CD8A
 Synonyms: CD8; Leu2; p32
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG206608 representing NM_001768
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTTACCAGTGACCGCCTTGCTCCTGCCGTGGCCTTGCTGCTCCACGCCGCCAGGCCGAGCCAGT
 TCCGGGTGTCGCCGTGGATCGGACCTGGAACCTGGGCGAGACAGTGGAGCTGAAGTGCCAGGTGCTGCT
 GTCCAACCGACGTCGGGCTGCTCGTGGCTTCCAGCCGCGGGCGCCGCCAGTCCCACCTTCCTC
 CTATACCTCTCCAAAACAAGCCAAGGGCGCCGAGGGGCTGGACACCCAGCGGTTCTCGGGCAAGAGGT
 TGGGGGACACCTTCGTCCTCACCTGAGCGACTCCGCCGAGAGAACGAGGGCTGCTATTCTGCTCGGC
 CCTGAGCAACTCCATCATGTACTTCAGCCACTTCGTGCCGGTCTTCTGCCAGCGAAGCCCACCAGGACG
 CCAGCGCCGCGACCACCAACACCGGCGCCACCATCGCGTCGAGCCCTGTCCCTGCGCCAGAGGCGT
 GCCGGCCAGCGCGGGGGGCGCAGTGCACACGAGGGGGCTGGACTTCGCCTGTGATATCTACATCTGGGC
 GCCCTTGGCCGGGACTTGTGGGGTCTTCTCCTGTCACTGGTTATCACCCCTTACTGCAACCACAGGAAC
 CGAAGACGTGTTTGCAAATGTCCCAGCCTGTGGTCAAATCGGGAGACAAGCCCAGCCTTTCGGCGAGAT
 ACGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206608 representing NM_001768
 Red=Cloning site Green=Tags(s)

MALPVTALLLPLALLLHAARPSQFRVSPLDRTWNLGETVELKCQVLLSNPTSGCSWLFQPRGAAASPTFL
 LYL SQNKPKAAEGLDTRFSGKRLGDTFVLTLSDFRRENEGCYFCSALSNSIMYF SHFVPVFLPAKPTTT
 PAPRPPTPAPTIASQPLSLRPEACRPAAGGAVHTRGLDFACDIYIWAPLAGTCGVL LLSLVITLYCNHRN
 RRRVCKCPRPVVKSGDKPSLSARYV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001768

ORF Size: 705 bp

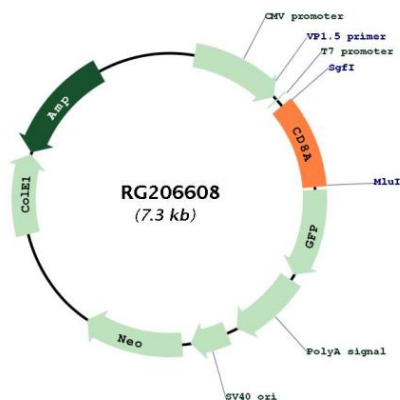
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001768.2
RefSeq Size:	2325 bp
RefSeq ORF:	708 bp
Locus ID:	925
UniProt ID:	P01732
Cytogenetics:	2p11.2
Domains:	ig, IGv, IG
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, 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 acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class I MHC molecules. The coreceptor functions as either a homodimer composed of two alpha chains or as 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 alpha chain. Multiple transcript variants encoding different isoforms have been found for this gene. The major protein isoforms of this gene differ by the presence or absence of a transmembrane domain and thus differ in being a membrane-anchored or secreted protein. [provided by RefSeq, May 2020]</p>

Product images:



Circular map for RG206608