

Product datasheet for **RG210150**

CTLA4 (NM_005214) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTLA4 (NM_005214) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTLA4
Synonyms:	ALPS5; CD; CD152; CELIAC3; CTLA-4; GRD4; GSE; IDDM12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210150 representing NM_005214 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGCCCTTGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTGCCAGGACCTGGCCCTGCACTC
TCCTGTTTTTCTTCTTCATCCCTGTCTTCTGCAAAGCAATGCACGTGGCCAGCCTGCTGTGGTACT
GGCCAGCAGCCGAGGCATCGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAAGCCACTGAGGTCGG
GTGACAGTGCTTCGGCAGGCTGACAGCCAGGTGACTGAAGTCTGTGCGGCAACCTACATGATGGGAATG
AGTTGACCTTCTAGATGATTCCATCTGCACGGGCACCTCCAGTGAAATCAAGTGAACCTCACTATCCA
AGGACTGAGGGCCATGGACACGGGACTCTACATCTGCAAGGTGGAGCTCATGTACCCACCGCCATACTAC
CTGGGCATAGGCAACGGAACCCAGATTTATGTAATTGATCCAGAACCGTGCCAGATTCTGACTTCTCC
TCTGGATCCTTGACAGTTAGTTCGGGGTTGTTTTTTATAGCTTCTCCTCACAGCTGTTTCTTTGAG
CAAAATGCTAAAGAAAAGAAGCCCTCTTACAACAGGGGTCTATGTGAAAATGCCCCCAACAGAGCCAGAA
TGTGAAAAGCAATTTTCAGCCTTATTTTATCCCATCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210150 representing NM_005214
 Red=Cloning site Green=Tags(s)

MACLGFQRHKAQLNLAARTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVR
 VTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPPYY
 LGIGNGTQIYVIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSLPTTGVYVKMPPTPEPE
 CEKQFQPYFIPIN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005214

ORF Size: 669 bp

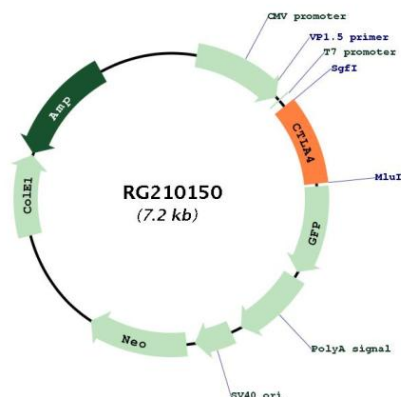
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_005214.3 , NP_005205.2
RefSeq Size:	1988 bp
RefSeq ORF:	672 bp
Locus ID:	1493
UniProt ID:	P16410
Cytogenetics:	2q33.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Autoimmune thyroid disease, Cell adhesion molecules (CAMs), T cell receptor signaling pathway
Gene Summary:	This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210150