

Product datasheet for **RG215850**

RAETIL (NM_130900) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RAETIL
Synonyms:	ULBP6
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215850 representing NM_130900
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCAGCCGCCATCCCAGCTTTGCTTCTGTGCCTCCCGCTTCTGTTCTGCTGTTTCGGCTGGTCCC
GGGCTAGGCGAGACGACCTCACTCTCTTTGCTATGACATCACCCTCATCCCTAAGTTCAGACCTGGACC
ACGGTGGTGTGCGGTTCAAGGCCAGGTGGATGAAAAGACTTTCTTCACTATGACTGTGGCAACAAGACA
GTCACACCCGTCAGTCCCCTGGGGAAGAACTAAATGTCACAACGGCTGGAAAGCACAGAACCCAGTAC
TGAGAGAGGTGGTGACATACTTACAGAGCAACTGCTTGACATTAGCTGGAGAATTACACACCCCAAGGA
ACCCCTCACCTGCAGGCAAGGATGTCTTGAGCAGAAAGCTGAAGGACACAGCAGTGGATCTTGGCAG
TTCAGTATCGATGGACAGACCTTCTACTCTTTGACTCAGAGAAGAGAATGTGGACAACGGTTTCATCCTG
GAGCCAGAAAGATGAAAGAAAAGTGGGAGAATGACAAGGATGTGGCCATGTCCTTCCATTACATCTCAAT
GGGAGACTGCATAGGATGGCTTGAGGACTTCTTGATGGGCATGGACAGCACCCCTGGAGCCAAGTGCAGGA
GCACCACTCGCCATGTCCTCAGGCACAACCAACTCAGGGCCACAGCCACCACTCATCCTTTGCTGCC
TCCTCATCATCCTCCCCTGCTTCATCCTCCCTGGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG215850 representing NM_130900

Red=Cloning site Green=Tags(s)

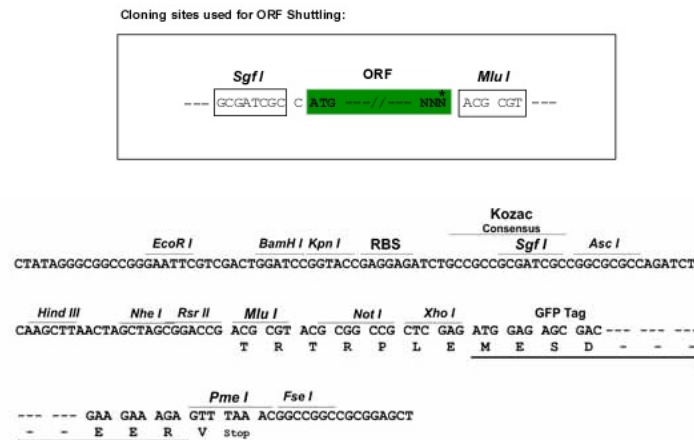
MAAAAI PALLLCLPLL FLLFGWSRARRDDPHSLCYDITVIPKFRPGPRWCAVQGQVDEKTF LHYDCGNKT
VTPVSP LGKKLNVT TAWKAQNPVLREVVDILTEQLLDIQLENYTPKEPLTLQARMSCEQKAEGHSSGSWQ
FSIDGQT FLLFDSEKRMWTTVHPGARKMKEKWENDKDVAMSFHYISMGDCIGWLEDFLMGMDSTLEPSAG
APLAMSSGTTQLRATATTLILCCLLIILPCFILPGI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_130900

ORF Size:

738 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:

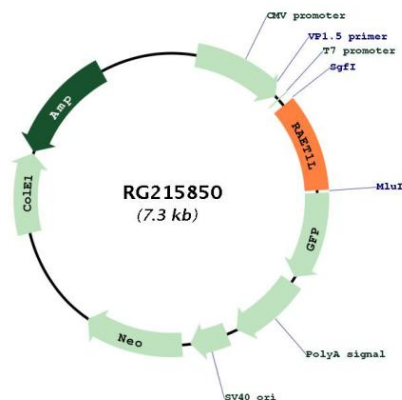
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_130900.1, NP_570970.1</u>
RefSeq Size:	741 bp
RefSeq ORF:	741 bp
Locus ID:	154064
UniProt ID:	<u>Q5VY80</u>
Cytogenetics:	6q25.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Natural killer cell mediated cytotoxicity
Gene Summary:	RAETIL belongs to the RAET1 family of major histocompatibility complex (MHC) class I-related genes, which are located within a 180-kb cluster on chromosome 6q24.2-q25.3. The RAET1 genes encode glycoproteins that contain extracellular alpha-1 and alpha-2 domains, but they lack the membrane proximal Ig-like alpha-3 domain. Most RAET1 glycoproteins are anchored to the membrane via glycosylphosphatidylinositol (GPI) linkage (Radosavljevic et al., 2002 [PubMed 11827464]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG215850