

## Product datasheet for **RG213815**

### ULBP4 (RAET1E) (NM\_139165) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ULBP4 (RAET1E) (NM_139165) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ULBP4
Synonyms:	bA350J20.7; LETAL; N2DL-4; NKG2DL4; RAET1E2; RL-4; ULBP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213815 representing NM_139165 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGAAGAATATCCCTGACTTCTAGCCCTGTGCGCCTTCTTTTGTCTGCTGTTGCTACTAATAGCCT  
TGGAGATCATGGTTGGTGGTCACTCTCTTTGCTTCAACTTCACTATAAAATCATTGTCCAGACCTGGACA  
GCCCTGGTGTGAAGCGCAGGTCTTCTTGAATAAAAATCTTTTCTTCAGTACAACAGTGACAACAACATG  
GTCAAACCTCTGGGCCTCTGGGAAGAAGGTAATGCCACCAGCACTTGGGAGAGTTGACCCAAACGC  
TGGGAGAAGTGGGCGAGACCTCAGGATGCTCCTTTGTGACATCAAACCCAGATAAAGACCAGTGATCC  
TTCCACTCTGCAAGTCGAGATGTTTTGTCAACATGAAGCAGAACGGTGCCTGGTGCATCCTGGCAGTTC  
ACCATCAATGGAGAGAAATCCCTCCTTTGACGCAATGAACATGACCTGGACAGTAATTAATCATGAAG  
CCAGTAAGATCAAGGAGACATGGAAGAAAGACAGAGGGCTGGAAGATATTTAGGAAAGCTCCTAAAGGG  
AGACTGCGATCACTGGCTCAGGGAATCTTAGGGCACTGGGAGGCAATGCCAGAACCAGTGTACCA  
GTAAATGCTTCAGATATCCACTGGTCTTCTTAGTCTACCAGATAGATGGATCATCCTGGGGCATTCA  
TCCTGTTACTTTAATGGGAATTGTTCTCATCTGTCTGGTGGCAAATGGTGAAGTGGCAGGCTGGTCT  
CTGGCCCTTGAGGACGTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213815 representing NM\_139165  
 Red=Cloning site Green=Tags(s)

MRRISLTSSPVRLLLFLLLLLIALEIMVGGHSLCFNFTIKSLSRPGQPWCEAQVFLNKNLFLQYNSDNNM  
 VKPLGLLGKKVNATSTWGELTQTLGEVGRDLRMLLCDIKPQIKTSDPSTLQVEMFCQHEAERCTGASWQF  
 TINGEKSLLFAMNMTWTVINHEASKIKETWKKDRGLEKYFRKLSKGDCHWLREFLGHWEAMPEPTVSP  
 VNASDIHWSSSLPDRWILGAFILLLLMGIVLICVWWQNGEWQAGLWPLRTS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_139165

**ORF Size:** 789 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.

**RefSeq:** [NM\\_139165.1](#), [NP\\_631904.1](#)

**RefSeq Size:** 885 bp

**RefSeq ORF:** 792 bp

**Locus ID:** 135250

**UniProt ID:** [Q8TD07](#)

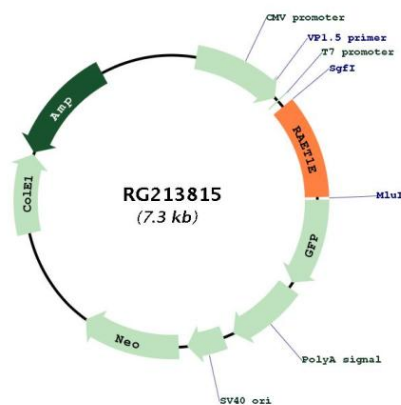
**Cytogenetics:** 6q25.1

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Natural killer cell mediated cytotoxicity

**Gene Summary:** This gene belong to the RAET1 family, which consists of major histocompatibility complex (MHC) class I-related genes located in a cluster on chromosome 6q24.2-q25.3. This and RAET1G protein differ from other RAET1 proteins in that they have type I membrane-spanning sequences at their C termini rather than glycosylphosphatidylinositol anchor sequences. This protein functions as a ligand for NKG2D receptor, which is expressed on the surface of several types of immune cells, and is involved in innate and adaptive immune responses. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2011]

### Product images:



Circular map for RG213815