

## Product datasheet for **RG232144**

### **ULBP4 (RAET1E) (NM\_001243328) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ULBP4 (RAET1E) (NM_001243328) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAET1E
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:	>RG232144 representing NM_001243328 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGAAGAATATCCCTGACTTCTAGCCCTGTGCGCCTTCTTTTGTCTGCTGTTGCTACTAATAGCCT  
TGGAGATCATGGTTGGTGGTCACTCTCTTTGCTTCAACTTCACTATAAAATCATTGTCCAGACCTGGACA  
GCCCTGGTGTGAAGCGCAGGTCTTCTTGAATAAAAATCTTTTCTTCAGTACAACAGTGACAACAACATG  
GTCAAACCTCTGGCCTCTGGGAAGAAGGTATATGCCACCAGCACTTGGGAGAATTGACCCAAACGC  
TGGGAGAAGTGGGCGAGACCTCAGGATGCTCCTTTGTGACATCAAACCCAGATAAAGACCAGTGATCC  
TTCCACTCTGCAAGTCGAGATGTTTTGTCAACGTGAAGCAGAACGGTGCCTGGTGCATCCTGGCAGTTC  
GCCACCAATGGAGAGAAATCCCTCTTTGACGCAATGAACATGACCTGGACAGTAATTAATCATGAAG  
CCAGTAAGATCAAGGAGACATGGAAGAAAGACAGAGGGCTGGAAGATTTTCAGGAAGCTCTCAAAGGG  
AGACTGCGATCACTGGCTCAGGGAATCTTAGGGCACTGGGAGGCAATGCCAGAACCACAGGCAGAAGA  
TCCACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232144 representing NM\_001243328  
 Red=Cloning site Green=Tags(s)

MRRISLTSSPVRLLLFLLLLLIALEIMVGGHSLCFNFTIKSLSRPGQPWCEAQVFLNKNLFLQYNSDNNM  
 VKPLGLLGKKVYATSTWGELTQTLGEVGRDLRMLLCDIKPQIKTSDPSTLQVEMFCQREARCTGASWQF  
 ATNGEKSLLFAMNMTWTVINHEASKIKETWKKDRGLEKYFRKLSKGDCHWLREFLGHWEAMPEPTGRR  
 ST

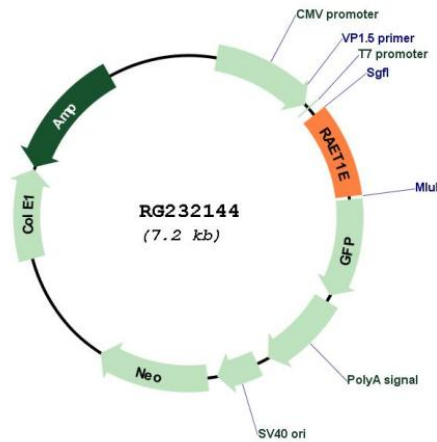
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001243328

**ORF Size:** 636 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001243328.1</a> , <a href="#">NP_001230257.1</a>
<b>RefSeq Size:</b>	2099 bp
<b>RefSeq ORF:</b>	639 bp
<b>Locus ID:</b>	135250
<b>UniProt ID:</b>	<a href="#">Q8TD07</a>
<b>Cytogenetics:</b>	6q25.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>Gene Summary:</b>	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]