

Product datasheet for **RC232202**

ULBP4 (RAET1E) (NM_001243325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ULBP4 (RAET1E) (NM_001243325) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAET1E
Synonyms:	bA350J20.7; LETAL; N2DL-4; NKG2DL4; RAET1E2; RL-4; ULBP4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232202 representing NM_001243325 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGAAGAATATCCCTGACTTCTAGCCCTGTGCGCCTTCTTTTGTTTCTGCTGTTGCTACTAATAGCCT
TGGAGATCATGTACAACAGTGACAACAACATGGTCAAACCTCTGGGCCTCCTGGGAAGAAGGTATATGC
CACCAGCACTTGGGAGAATTGACCCAAACGCTGGGAGAAGTGGGGCGAGACCTCAGGATGCTCCTTTGT
GACATCAAACCCAGATAAAGACCAGTGATCCTTCCACTCTGCAAGTCGAGATGTTTTGTCAACGTGAAG
CAGAACGGTGCCTGGTGCATCCTGGCAGTTCCGCCACCAATGGAGAGAAAATCCCTCCTTTGACGCAAT
GAACATGACCTGGACAGTAATTAATCATGAAGCCAGTAAGATCAAGGAGACATGGAAGAAAGACAGAGGG
CTGGAAAAGTATTTAGGAAGCTCTCAAAGGGAGACTGCGATCACTGGCTCAGGGAATTCTTAGGGCACT
GGGAGGCAATGCCAGAACCAGTGTCACCAGTAAATGCTTCAGATATCCACTGGTCTTCTTAGTCT
ACCAGATAGATGGATCATCCTGGGGCATTATCCTGTTAGTTTTAATGGGAATTGTTCTCATCTGTGTC
TGGTGGCAAAATGGTGAAGTGGCAGGCTGGTCTCTGGCCCTTGAGGACGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232202 representing NM_001243325
Red=Cloning site Green=Tags(s)

MRRISLTSSPVRLLLFLLLLLIALEIMYNSDNNMVKPLGLLGKKVYATSTWGELTQTLGEVGRDLRMLLC
 DIKPQIKTSDPSTLQVEMFCQREAERCTGASWQFATNGEKSLFDAMNMTWTVINHEASKIKETWKKDRG
 LEKYFRKLSKGD CDHWLREFLGHWEAMPEPTVSPVNASDIHWSSSLPDRWIILGAFILLVLMGIVLICV
 WWQNGEWQAGLWPLRTS

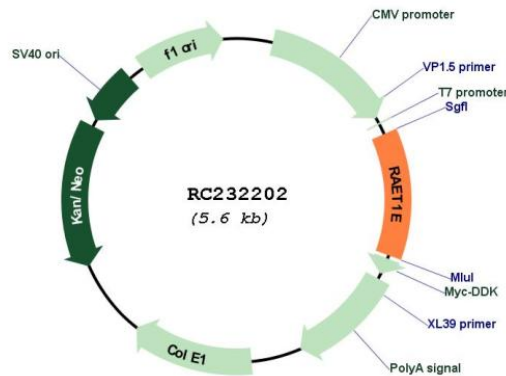
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243325

ORF Size: 681 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_001243325.1 , NP_001230254.1
RefSeq Size:	850 bp
RefSeq ORF:	684 bp
Locus ID:	135250
UniProt ID:	Q8TD07
Cytogenetics:	6q25.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Natural killer cell mediated cytotoxicity
MW:	26.5 kDa
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]