

Product datasheet for **RC232136**

ULBP4 (RAET1E) (NM_001243327) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ULBP4 (RAET1E) (NM_001243327) 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: >RC232136 representing NM_001243327
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGAAGAATATCCCTGACTTCTAGCCCTGTGCGCCTCTTTTGTTCGCTGTTGCTACTAATAGCCT
TGGAGATCATGGTTGGTGGTCACTCTCTTTGCTCAACTTCACTATAAAATCATTGTCCAGACCTGGACA
GCCCTGGTGTGAAGCGCAGGTCTTCTTGAATAAAATCTTTTCCTCAGTACAACAGTGACAACAACATG
GTCAAACCTCTGGGCCTCCTGGGAAGAAGGTATATGCCACCAGCACTTGGGGAGAATTGACCCAAACGC
TGGGAGAAGTGGGGCGAGACCTCAGGATGCTCCTTTGTGACATCAAACCCAGATAAAGACCAGTGATCC
TTCCACTCTGCAAGTCGAGATGTTTTGTCAACGTGAAGCAGAACGGTGCCTGGTGCATCCTGGCAGTTC
GCCACCAATGGAGAGAAAATCCCTCCTTTGACGCAATGAACATGACCTGGACAGTAATTAATCATGAAG
CCAGTAAGATCAAGGAGACATGGAAGAAAGACAGAGGGCTGGAAGTATTTTCAGGAAGCTCAAAGGG
AGACTGCGATCACTGGCTCAGGAATTCCTAGGGCACTGGGAGGCAATGCCAGAACCACAGGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232136 representing NM_001243327
Red=Cloning site Green=Tags(s)

MRRISLTSSPVRLLLFLLLLLIALIEIMVGGHSLCFNFTIKSLSRPGQPWCEAQVFLNKNLFLQYNSDNM
VKPLGLLGKKVYATSTWELTQTLGEVGRDLRMLLCDIKPQIKTSDPSTLQVEMFCQREAERCTGASWQF
ATNGEKSLFLDAMNMTWTVINHEASKIKETWKKDRGLEKYFRKLSKGDCHWLREFLGHWEAMPEPTGN

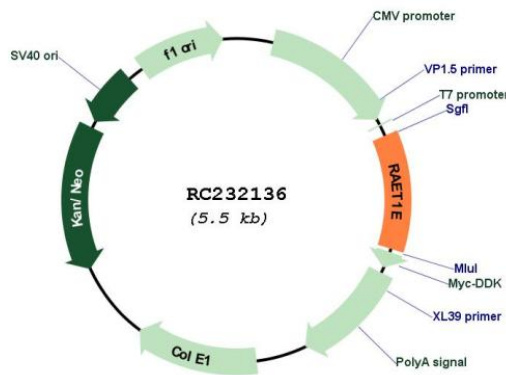
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001243327

ORF Size: 627 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_001243327.1](#), [NP_001230256.1](#)

RefSeq Size: 1032 bp

RefSeq ORF: 630 bp

Locus ID: 135250

UniProt ID: [Q8TD07](#)

Cytogenetics: 6q25.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Natural killer cell mediated cytotoxicity

MW: 24.4 kDa

Gene Summary: This gene belongs 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]