

## Product datasheet for **SC316696**

### ULBP4 (RAET1E) (NM\_139165) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ULBP4 (RAET1E) (NM_139165) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAET1E
Synonyms:	bA350J20.7; LETAL; N2DL-4; NKG2DL4; RAET1E2; RL-4; ULBP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316696 representing NM_139165. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGAAGAATATCCCTGACTTCTAGCCCTGTGCGCCTTCTTTTGTCTGCTGTTGCTACTAATAGCC
TTGGAGATCATGGTTGGTGGTCACTCTCTTTGCTTCACTTCACTATAAAATCATTGTCCAGACCTGGA
CAGCCCTGGTGTGAAGCGCAGGTCTTCTGAATAAAAAATCTTTTCCTTCAGTACAACAGTGACAACAAC
ATGGTCAAACCTCTGGGCCTCTGGGGAAGAAGGTATATGCCACCAGCACTTGGGGAGAATTGACCCAA
ACGCTGGGAGAAGTGGGCGAGACCTCAGGATGCTCCTTTGTGACATCAAACCCAGATAAAGACCAGT
GATCCTTCCACTCTGCAAGTCGAGATGTTTTGTCAACGTGAAGCAGAACGGTGCCTGGTGCATCCTGG
CAGTTCGCCACCAATGGAGAGAAATCCCTCCTTTGACGCAATGAACATGACCTGGACAGTAATTAAT
CATGAAGCCAGTAAGATCAAGGAGACATGGAAGAAAGACAGAGGGCTGGAAAAGTATTTTCAGGAAGCTC
TCAAAGGGAGACTGCGATCACTGGCTCAGGGAATCTTAGGGCACTGGGAGGCAATGCCAGAACCAGACA
GTGTCACCAGTAAATGCTTCAGATATCCACTGGTCTTCTCTAGTCTACCAGATAGATGGATCATCCTG
GGGGCATTATCCTGTTAGTTTTAATGGGAATTTCTCATCTGTGTCTGGTGGCAAAATGGTGAGTGG
CAGGCTGGTCTCTGGCCCTTGGGACGTCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_139165
Insert Size:	792 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_139165.2</a>
<b>RefSeq Size:</b>	958 bp
<b>RefSeq ORF:</b>	792 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>MW:</b>	30.1 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>