

Product datasheet for SC317509

RAET1G (NM_001001788) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAET1G (NM_001001788) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAET1G
Synonyms:	ULBP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317509 representing NM_001001788. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCGGCCGCCAGCCCCGGTTCTTCTACGCCTCCCGCTTCTGCTCCTGTGTCCAGCTGGTGC
AGGACCGGGCTGGCCGACCCTCACTCTCTTTGCTATGACATCACCGTCATCCCTAAGTTCAGACCTGGA
CCACGGTGGTGTGCGGTTCAAGGCCAGGTGGATGAAAAGACTTTTCTTCACTATGACTGTGGCAGCAAG
ACAGTACACCCGTCAGTCCCCTGGGGAAGAACTAAATGTCACAACGGCCTGGAAAGCACAGAACCCA
GTACTGAGAGAGGTGGTGGACATACTTACAGCAACTGCTTGACATTCACTGGAGAATTACATACCC
AAGGAACCCCTCACCTGCAGGCCAGGATGTCTTGTGAGCAGAAAGCCGAAGGACACGGCAGTGGATCT
TGGCAGCTCAGTTTCGATGGACAGATCTTCTCCTCTTTGACTCAGAAAACAGAAATGTGGACAACGGTT
CATCCTGGAGCCAGAAAGATGAAAGAAAAGTGGGAGAATGACAAGGATATGACCATGTCCCTTCCATTAC
ATCTCAATGGGAGACTGCACAGGATGGCTTGGAGACTTCTTGTGGGCATGGACAGCACCCCTGGAGCCA
AGTGCAGGAGCACCCACCATGTCTCAGGCACAGCCCAACCCAGGGCCACGGCCACCACCCTCATC
CTTTGCTGCCTCCTCATCATGTGTCTCCTCATATGCTCCAGGCACAGTCTGACCCAAAGCCATGGCCAC
CACCTCAGTCCCTGCAGCCTCCTCCTCATCCTCCCCTGCTTATCCTACCTGGCTGCTGAGAAGAGTC
CTTTGGAGTGACAGCTACCAAATAGCGAAGCGCCCTTGTCTGGTGGACAGTCACTCGCGTGACTTTA
CCTATCATTGGAGAGACTCACACTCCTTACCCTGCCCTTGCCTTGTATACAATAAATAACGGCGCA
GCCAGGTATTCGGAGCCACTACAGGTCTCCATATCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001001788
Insert Size:	1005 bp



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OTI Disclaimer:	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).
OTI Annotation:	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
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_001001788.2
RefSeq Size:	1144 bp
RefSeq ORF:	1005 bp
Locus ID:	353091
UniProt ID:	Q6H3X3
Cytogenetics:	6q25.1
Protein Families:	Druggable Genome
Protein Pathways:	Natural killer cell mediated cytotoxicity
MW:	37.1 kDa
Gene Summary:	<p>This gene encodes a member of the major histocompatibility complex (MHC) class I family of proteins. Although the encoded protein includes C-terminal transmembrane and cytoplasmic domains, proteolytic processing results in the removal of these domains and subsequent tethering to the plasma membrane by a glycosylphosphatidylinositol (GPI)-anchor. The encoded protein is one of several related ligands of the natural killer group 2, member D (NKG2D) receptor, which functions as an activating receptor in innate and adaptive immunity. This gene is present in a gene cluster on chromosome 6. [provided by RefSeq, Jul 2015]</p> <p>Transcript Variant: This variant (1, also known as RAET1G1) represents the longer transcript and encodes the protein.</p>