

Product datasheet for **RC207174**

ULBP1 (NM_025218) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ULBP1 (NM_025218) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ULBP1
Synonyms:	N2DL-1; NKG2DL1; RAET1I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207174 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGGCCCGCCAGCCCCGGTTCCTTCTGTGCCTCCCGCTTCTGCACCTGCTGTCTGGCTGGTCCC
GGGCAGGATGGGTCGACACACACTGTCTTTGCTATGACTTCATCATCACTCCTAAGTCCAGACCTGAACC
ACAGTGGTGTGAAGTTCAAGGCCTGGTGGATGAAAGGCCTTTTCTTCACTATGACTGTGTTAACCACAAG
GCCAAAGCCTTTGCTTCTCTGGGAAGAAAGTCAATGTCACAAAACTGGGAAGAACAACCTGAAACAC
TAAGAGACGTGGTGGATTCCTTAAAGGGCAACTGCTTGACATCAAGTGGAGAATTTAATACCCATTGA
GCCCTCACCTGCAGGCCAGGATGTCTTGTGAGCATGAAGCCATGGACACGGCAGAGGATCTTGGCAG
TTCTCTTCAATGGACAGAAGTTCTCCTCTTTGACTCAAACAACAGAAAGTGGACAGCACTTCATCCTG
GAGCCAAGAAGATGACAGAGAAGTGGGAGAAGAACAGGGATGTGACCATGTTCTTCCAGAAGATTTCACT
GGGGGATTGTAAGATGTGGCTTGAAGAATTTTGTGACTGGGAACAAATGCTGGATCCAACAAAACCA
CCCTCTCTGGCCCAGGCACAACCAACCAAGGCCATGGCCACCACCCTCAGTCCCTGGAGCCTTCTCA
TCATCTTCTCTGCTTATTCTAGCTGGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207174 protein sequence
Red=Cloning site Green=Tags(s)

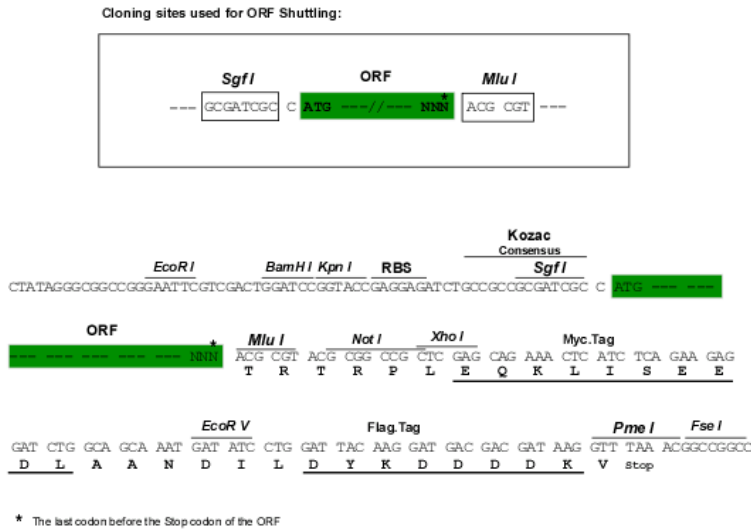
MAAAASPALLCLPLHLLSGWSRAGWVDTHCLCYDFIITPKSRPEPQWCEVQGLVDERPFLHYDCVNHK
 AKAFASLGKKVNVTKTWEEQTETLRDVVDFLKGQLLDIQVENLPIEPLTLQARMSCEHEAHGHGRGSWQ
 FLFNGQKFLFLFDSNNRKTALHPGAKKMTKEKWEKNRDVTMFFQKISLGDCKMWLEEF LMYWEQMLDPTKP
 PSLAPGTTQPKAMATTLSPWSLLIIFLCFILAGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6365_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025218

ORF Size: 732 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_025218.4](#)

RefSeq Size: 3160 bp

RefSeq ORF: 735 bp

Locus ID: 80329

UniProt ID: [Q9BZM6](#)

Cytogenetics: 6q25.1

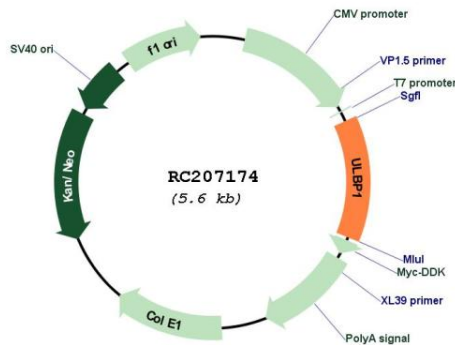
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Natural killer cell mediated cytotoxicity

MW: 28 kDa

Gene Summary: The protein encoded by this gene is a ligand of natural killer group 2, member D (NKG2D), an immune system-activating receptor on NK cells and T-cells. Binding of the encoded ligand to NKG2D leads to activation of several signal transduction pathways, including those of JAK2, STAT5, ERK and PI3K kinase/Akt. Also, in cytomegalovirus-infected cells, this ligand binds the UL16 glycoprotein and is prevented from activating the immune system. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RC207174