

Product datasheet for **SC305245**

ULBP1 (NM_025218) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ULBP1 (NM_025218) Human Untagged Clone
Tag:	Tag Free
Symbol:	ULBP1
Synonyms:	N2DL-1; NKG2DL1; RAET1I
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_025218 edited
 GGGAAACCATCAGCGCCTCTGTCCACGGAGCTCCAGGTCTACAATGGCAGCGGCCCGCCAG
 CCCCXCGTTTCCTTCTGTGCCTCCCGCTTCTGCACCTGCTGTCTGGCTGGTCCCGGCCAGG
 ATGGGTGACACACACTGTCTTTGCTATGACTTCATCATCACTCCTAAGTCCAGACTGA
 ACCACAGTGGTGTGAAGTTCAAGGCCTGGTGGATGAAAGGCCTTTTCTCACTATGACTG
 TGTTAACCACAAGGCCAAAGCCTTTGCTTCTCTGGGGAAGAAAGTCAATGTCACAAAAAC
 CTGGGAAGAACAACACTGAAACACTAAGAGACGTGGTGGATTTCTTAAAGGGCAACTGCT
 TGACATTCAAGTGGAGAATTTAATACCCATTGAGCCCCTACCCTGCAGGCCAGGATGTC
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 GAAGTTCTCTCTTTGACTCAAACAACAGAAAGTGGACAGCACTTCATCCTGGAGCCAA
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 CCTTGGCCTCCCAATGCTCTGGGATTACAGACATGAACCACAGTGCCTGTTGTAGAAATT



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ATAAAAATTTGTATGATGATAATTGTATAATAATTATACATGAAAGTGCCAAAACCTAC
AATTAACACTGTATAATGGAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_025218
- Insert Size:** 3100 bp
- 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_025218.2.
- 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_025218.2](#), [NP_079494.1](#)

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

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]

Transcript Variant: This variant (1) encodes the longer isoform (1).