

Product datasheet for **RG204506**

ULBP2 (NM_025217) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ULBP2 (NM_025217) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ULBP2
Synonyms:	ALCAN-alpha; N2DL2; NKG2DL2; RAET1H; RAET1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204506 representing NM_025217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAGCCGCGCTACCAAGATCCTTCTGTGCCTCCCGTTCTGCTCCTGCTGTCCGGCTGGTCCC
GGGCTGGGCGAGCCGACCCTCACTCTTTGCTATGACATCACCGTCATCCCTAAGTTCAGACCTGGACC
ACGGTGGTGTGCGGTTCAAGGCCAGGTGGATGAAAAGACTTTTCTTCACTATGACTGTGGCAACAAGACA
GTCACACCTGTCAGTCCCCTGGGAAGAACTAAATGTCACAACGGCCTGGAAAGCACAGAACCCAGTAC
TGAGAGAGGTGGTGGACATACTTACAGAGCAACTGCGTGACATTCAGCTGGAGAATTACACACCCAAGGA
ACCCCTCACCTGCAGGCCAGGATGTCTTGTGAGCAGAAAAGCTGAAGGACACAGCAGTGGATCTTGGCAG
TTCAGTTTCGATGGGCAGATCTTCTCCTCTTTGACTCAGAGAAGAGAATGTGGACAACGGTTCATCCTG
GAGCCAGAAAGATGAAAGAAAAGTGGGAGAATGACAAGGTTGTGGCCATGTCTTCCATTACTTCTCAAT
GGGAGACTGTATAGGATGGCTTGAGGACTTCTTGATGGGCATGGACAGCACCCCTGGAGCCAAGTGCAGGA
GCACCACTCGCCATGTCTCAGGCACAACCAACTCAGGGCCACAGCCACCACCCATCCTTTGCTGCC
TCCTCATCATCTCCCTGCTTCATCTCCTGGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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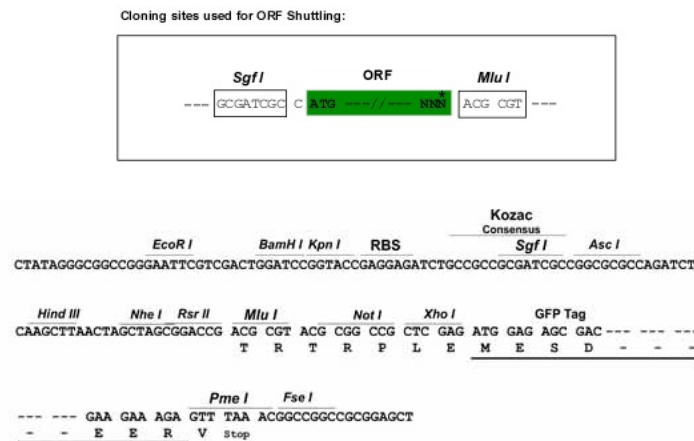
Protein Sequence: >RG204506 representing NM_025217
 Red=Cloning site Green=Tags(s)

MAAAAATKILLCLPLLLLLSGWSRAGRADPHSLCYDITVIPKFRPGPRWCAVQGQVDEKTFLLHYDCGNKT
 VTPVSPLGKLLNVTTAWKAQNPVLRVVDILTEQLRDIQLENYTPKEPLTLQARMSCEQKAEGHSSGSWQ
 F5FDGQIFLLFDSEKRMWTTVHPGARKMKEKWKENDKVVAMSFHYFSMGDCIGWLEDFLMGMDSTLEPSAG
 APLAMSSGTTQLRATATLILCCLLIILPCFILPGI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025217

ORF Size: 738 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_025217.2](#), [NP_079493.1](#)

RefSeq Size: 1362 bp

RefSeq ORF: 741 bp

Locus ID: 80328

UniProt ID: [Q9BZM5](#)

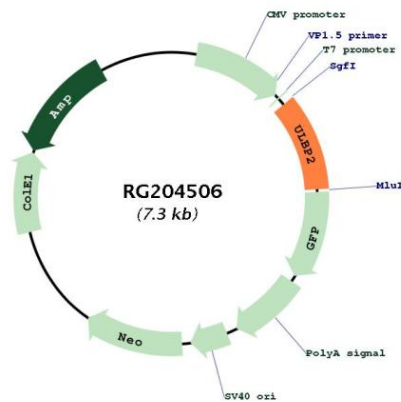
Cytogenetics: 6q25.1

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Natural killer cell mediated cytotoxicity

Gene Summary: This gene encodes a major histocompatibility complex (MHC) class I-related molecule that binds to the NKG2D receptor on natural killer (NK) cells to trigger release of multiple cytokines and chemokines that in turn contribute to the recruitment and activation of NK cells. The encoded protein undergoes further processing to generate the mature protein that is either anchored to membrane via a glycosylphosphatidylinositol moiety, or secreted. Many malignant cells secrete the encoded protein to evade immunosurveillance by NK cells. This gene is located in a cluster of multiple MHC class I-related genes on chromosome 6. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RG204506