

## Product datasheet for **SC122983**

### ULBP2 (NM\_025217) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ULBP2 (NM\_025217) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ULBP2  
**Synonyms:** ALCAN-alpha; N2DL2; NKG2DL2; RAET1H; RAET1L  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_025217 edited  
 GTCTCTCCTCCCTAGCGCTCTGGGTCCTTAATGGCAGCAGCCGCCGTACCAAGATCCTT  
 CTGTGCCCTCCCGTTCTGCTCCTGCTGTCCGGCTGGTCCCGGGCTGGGCGAGCCGCCCT  
 CACTCTCTTTGCTATGACATCACCGTCATCCCTAAGTTCAGACCTGGACCACGGTGGTGT  
 GCGGTTCAAGGCCAGGTGGATGAAAAGACTTTTCTTCACTATGACTGTGGCAACAAGACA  
 GTCACACCTGTCAGTCCCTGGGAAGAACTAAATGTCACAACGGCCTGGAAAGCACAG  
 AACCCAGTACTGAGAGAGGTGGTGGACATACTTACAGAGCAACTGCGTGACATTCAGCTG  
 GAGAATTACACACCAAGGAACCCCTCACCTGCAGGCCAGGATGCTTGTGAGCAGAAA  
 GCTGAAGGACACAGCAGTGGATCTTGGCAGTTCAGTTTCGATGGGCAGATCTTCCTCCTC  
 TTTGACTCAGAGAAGAGAATGTGGACAACGGTTCATCCTGGAGCCAGAAAGATGAAAGAA  
 AAGTGGGAGAATGACAAGTTGTGGCCATGTCTTCCATTACTTCTCAATGGGAGACTGT  
 ATAGGATGGCTTGAGGACTTCTTGATGGGCATGGACAGCACCCCTGGAGCCAAGTGCAGGA  
 GCACCACTCGCCATGTCCTCAGGCACAACCAACTCAGGGCCACAGCCACCACCCCTCATC  
 CTTTGCTGCCTCCTCATCATCCTCCCTGCTTCACTCCTCCCTGGCATCTGAGGAGAGTCC  
 TTTAGAGTGACAGGTTAAAGCTGATACCAAAAGGCTCCTGTGAGCACGGTCTTGATCAAA  
 CTCGCCCTTCTGTCTGGCCAGCTGCCACGACCTACGGTGTATGTCCAGTGGCCTCCAGC  
 AGATCATGATGACATCATGGACCAATAGCTCATTCACTGCCTTGATTCTTTTGCCAAC  
 AATTTTACCAGCAGTTATACCTAACATATTATGCAATTTTCTCTTGGTGTACCTGATGG  
 AATTCTGCACCTAAAGTTCTGGCTGACTAAACAAGATATATCATTTTCTTTCTTCTCTT  
 TTTGTTTGGAAAATCAAGTACTTCTTTGAATGATGATCTCTTTCTTGGAAATGATATTGT  
 CAGTAAAATAATCACGTTAGACTTCAGACCTCTGGGGATTCTTTCCGTGCTCTGAAAGAG  
 AATTTTAAATTTAATAAGAAAAATTTATATTAATGATTGTTTCTTTAGTAATTT  
 ATTGTTCTGACTGATATTTAAATAAAGAGTTCTATTTCCAAAAAAAAAAAAAAAAAAAA  
 AA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_025217 unedited GTCATTTTTGTATACGACTCACTATAGGCGGCCGCGACTTCATATCTGGTACCGGTCCGG AATTCCCAGGATGTCTCTCCTCCCTAGCGCTCTGGGTCTTAATGGCAGCAGCCGCCGCT ACCAAGATCCTTCTGTGCCTCCCCTTCTGCTCCTGTGTCCGGCTGGTCCCAGGCTGGG CGAGCCGACCCTCACTCTCTTTGCTATGACATCACCGTCATCCCTAAGTTCAGACCTGGA CCACGGTGGTGTGCGGTTCAAGGCCAGGTGGATGAAAAGACTTTTCTTCACTATGACTGT GGCAACAAGACAGTCACACCTGTCAGTCCCCTGGGGAAGAACTAAATGTCACAACGGCC TGGAAAGCACAGAACCCAGTACTGAGAGAGGTGGTGGACATACTTACAGAGCAACTGCGT GACATTACAGTGGAGAATTACACACCCAAGGAACCCCTCACCTGCAGGCCAGGATGTCT TGTGAGCAGAAAGCTGAAGGACACAGCAGTGGATCTTGGCAGTTCAGTTTCGATGGGCAG ATCTTCTCCTCTTTGACTCAGAGAAGAGAATGTGGACAACGGTTCATCCTGGAGCCAGA TAGATGAAAGATAAGTGGGAGAATGACAAGTTGTGGCCATGTCCTTCCATTACTTCTCA ATGGGAGACTGTATAGGATGGCTTGAGGACTTCTTGATGGGCATGGACAGCACCTGGAG CCAAGTGCANGAGCACCCTCGCCATGTCCTCATGCACAACCAACTCAGGGCCACAGCC ACCACCCTCATCCTTTGCTGCCTCCCATCATCCTCCCCTGCTTCATCCTCCTGGCATCT GAGGAGAGTCCTTTAAATGACAGGTAAGGCTGATCCAAAAGGCTCCTGTGAACACGGTC CTGAATCAACTCGCCCTTTGTCTGGCCACCG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_025217
<b>Insert Size:</b>	1368 bp
<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>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_025217.2</a> , <a href="#">NP_079493.1</a>
<b>RefSeq Size:</b>	1362 bp
<b>RefSeq ORF:</b>	741 bp
<b>Locus ID:</b>	80328
<b>UniProt ID:</b>	<a href="#">Q9BZM5</a>
<b>Cytogenetics:</b>	6q25.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	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]