

## Product datasheet for SC111719

### LIGHT (TNFSF14) (NM\_003807) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LIGHT (TNFSF14) (NM_003807) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIGHT
Synonyms:	CD258; HVEM; LIGHT; LTg
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111719 sequence for NM_003807 edited (data generated by NextGen Sequencing)

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ATGGAGGAGAGTGTCTACGGCCCTCAGTGTGTTGTGGTGGATGGACAGACCGACATCCCA
TTCACGAGGCTGGGACGAAGCCACCGGAGACAGTCGTGCAGTGTGGCCCGGGTGGGTCTG
GGTCTCTTGCTGTTGCTGATGGGGCCGGGCTGGCCGTCCAAGGCTGGTTCCTCCTGCAG
CTGCACTGGCGTCTAGGAGAGATGGTCACCCGCCTGCCTGACGGACCTGCAGGCTCCTGG
GAGCAGCTGATACAAGAGCGAAGGTCTCACGAGGTCAACCCAGCAGCGCATCTCACAGGG
GCCAACTCCAGCTTGACCGGCAGCGGGGGCCGCTGTTATGGGAGACTCAGCTGGGCCTG
GCCTTCCTGAGGGCCTCAGCTACCACGATGGGGCCCTTGTGGTCACCAAAGCTGGCTAC
TACTACATCTACTCCAAGGTGCAGCTGGGCGGTGTGGGCTGCCCGCTGGGCCTGGCCAGC
ACCATCACCCACGGCCTCTACAAGCGCACACCCCGCTACCCCGAGGAGCTGGAGCTGTTG
GTCAGCCAGCAGTCACCCCTGCGGACGGGCCACCCAGCAGCTCCCGGTCTGGTGGGACAGC
AGCTTCCTGGGTGGTGTGGTACACCTGGAGGCTGGGGAGGAGGTGGTCCGTCCGTGTGCTG
GATGAACGCTGGTTCGACTGCGTGATGGTACCCGGTCTTACTTCGGGGCTTTCATGGTG
TGA

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Clone variation with respect to NM\_003807.3  
640 a=>g



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003807 unedited TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAATTTTCGGTTTC CTCTGAGGTTGAAGGACCCAGGCGTGTGAGCCCTGCTCCAGACACCTTGGGCATGGAGGA GAGTGTGCTACGGCCCTCAGTGTGGTGGTGGATGGACAGACCCATTCCAGAG GCTGGGACGAAGCCACCGGAGACAGTCGTGAGTGTGGCCGGTGGGTCTGGTCTCTT GCTGTTGCTGATGGGGCCGGGCTGGCCGTCCAAGGCTGGTTCCTCCTGCAGCTGCACTG GCGTCTAGGAGAGATGGTCACCCGCTGCCTGACGGACCTGCAGGCTCCTGGGAGCAGCT GATACAAGAGCGAAGGTCTCACGAGGTCAACCCAGCAGCGCATCTCACAGGGGCCAACTC CAGCTTACCAGGACGGGGGGCGCTGTTATGGGAGACTCAGCTGGGCCTGGCCTTCT GAGGGGCCTCAGTACCACGATGGGGCCCTTGTGGTACCAAAGCTGGCTACTACTACAT CTACTCAAGGTGCAGCTGGGCGGTGTGGGCTGCCCGTGGCCTGGCCAGCACCATCAC CCACGGCTCTACAAGCGCACACCCGCTACCCCGAGGAGCTGGAGCTGTTGGTACGCCA GCAGTACCCTGCGGACGGCCACCAGCAGCTCCCGGTCTGGTGGGACAGCAGCTTCT GGGTGGTGTGNTACACCTGGAGGCTGGANNGAGTGGTCTCCGTGTGCTGGATGAACG CCTGGTTCGACTGCGTGTGGTACCCGCTTACTCNCGGCTNTCATGGTGTGAAGGAAG AGCGTGGTGCATTGGACATGGTCTGACCGTGNAGACTCAGAGGTGCCTCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003807
<b>Insert Size:</b>	2690 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_003807.2</a> , <a href="#">NP_003798.2</a>
<b>RefSeq Size:</b>	1491 bp
<b>RefSeq ORF:</b>	723 bp
<b>Locus ID:</b>	8740
<b>UniProt ID:</b>	<a href="#">O43557</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	TNF
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction

**Gene Summary:**

The protein encoded by this gene is a member of the tumor necrosis factor (TNF) ligand family. This protein is a ligand for TNFRSF14, which is a member of the tumor necrosis factor receptor superfamily, and which is also known as a herpesvirus entry mediator (HVEM). This protein may function as a costimulatory factor for the activation of lymphoid cells and as a deterrent to infection by herpesvirus. This protein has been shown to stimulate the proliferation of T cells, and trigger apoptosis of various tumor cells. This protein is also reported to prevent tumor necrosis factor alpha mediated apoptosis in primary hepatocyte. Two alternatively spliced transcript variant encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.