# *m*LIGHT/TNFSF14 VersaClone cDNA

**Catalog Number: RDC1164**

## Specifications:

| | |
|---|---|
| Gene: | *m*Tnfsf14 |
| Accession: | NP_062291 |
| Insert size: | 733bp |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

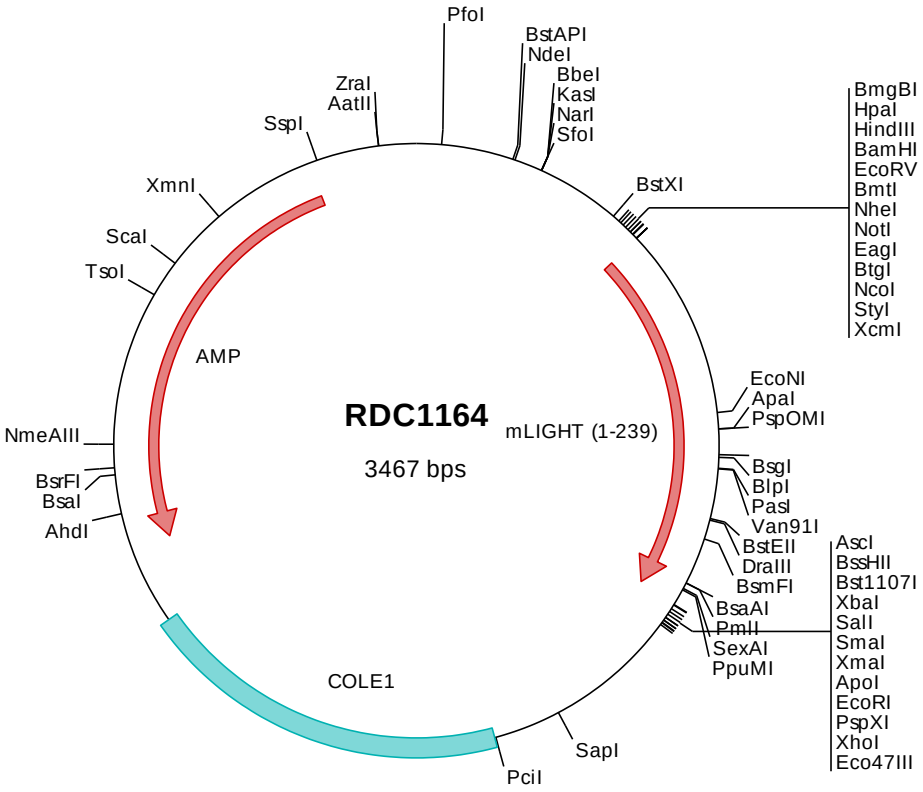
| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

# *m*LIGHT/TNFSF14 cDNA Plasmid

**Tnfsf14 tumor necrosis factor (ligand) superfamily, member 14 [ *Mus musculus* (house mouse) ]**

**Also known as:** LTg; HVEML; LIGHT; Ly113; HVEM-L

**Summary:**
LIGHT is a member of the tumor necrosis factor (TNF) superfamily. It is expressed by activated lymphocytes, natural killer cells, immature dendritic cells, monocytes, and granulocytes. Mouse LIGHT binds and signals via the herpes virus entry mediator (HVEM/TNFRSF14) and the lymphotoxin β receptor (LTβ R/TNFRSF3). Signaling from LTβ R induces apoptosis and the production of various cytokines. Signaling from HVEM co-stimulates T-helper cell type 1 (TH1) immune responses, enhances Cytotoxic T Lymphocytes (CTL)-mediated tumor immunity, and regulates allogeneic T cell activation and allograft rejection.




FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC1164 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggagagtg tggtacagcc ttcagtgttt gtggtggatg gacagacgga
 501  catcccattc aggcggctgg aacagaacca ccggagaagg cgctgtggca ctgtccaggt cagcctggcc ctggtgctgc tgctaggtgc tgggctggcc
 601  actcagggct ggtttctcct gagactgcat caacgtcttg gagacatagt agctcatctg ccagatggag gcaaaggctc ctgggagaag ctgatacaag
 701  atcaacgatc tcaccaggcc aacccagcag cacatcttac aggagccaac gccagcttga taggtattgg tggacctctg ttatgggaga cacgacttgg
 801  cctggccttc ttgaggggct tgacgtatca tgatggggcc ctggtgacta tggagcccgg ttactactat gtgtactcca aagtgcagct gagcggcgtg
 901  ggctgccccc aggggctggc caatggcctc cccatcactc atggactata caagcgcaca tcccgctacc cgaaggagtt agaactgctg gtcagtcggc
1001  ggtcaccctg tggccgggcc aacagctccc gagtctggtg ggacagcagc ttcctgggcg gcgtggtaca tctggaggct ggggaagagg tggtggtccg
1101  cgtgcctgga aaccgcctgg tcagaccacg tgacggcacc aggtcctatt tcggagcttt catggtctaa aggcgcgcca gtatactcta gagtcgacac
1201  ccggggaatt cctcgagcgc tcgtctctag cttggcgtaa tcatggtcat agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata
1301  cgagccggaa gcataaagtg taaagcctgg ggtgcctaat gagtgagcta actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc
1401  tgtcgtgcca gctgcattaa tgaatcggcc aacgcgcggg gagaggcggt ttgcgtattg ggcgctcttc cgcttcctcg ctcactgact cgctgcgctc
1501  ggtcgttcgg ctgcggcgag cggtatcagc tcactcaaag gcggtaatac ggttatccac agaatcaggg gataacgcag gaaagaacat gtgagcaaaa
1601  ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc tggcgttttt ccataggctc cgcccccctg acgagcatca caaaaatcga cgctcaagtc
1701  agaggtggcg aaacccgaca ggactataaa gataccaggc gtttcccccc ggaagctccc tcgtgcgctc tcctgttccg accctgccgc ttaccggata
1801  cctgtccgcc tttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt
1901  gtgcacgaac ccccgttca gcccgaccgc tgcgccttat ccggtaacta tcgtcttgag tccaacccgg taagacacga cttatcgcca ctggcagcag
2001  ccactggtaa caggattagc agagcgaggt atgtaggcgg tgctacagag ttcttgaagt ggtggcctaa ctacggctac actagaagga cagtatttgg
2101  tatctgcgct ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg caaacaaacc accgctggta gcggtggttt ttttgtttgc
2201  aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat cttttctacg gggtctgacg ctcagtggaa cgaaaactca cgttaaggga
2301  ttttggtcat gagattatca aaaaggatct tcacctagat ccttttaaat taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc
2401  tgacagttac caatgcttaa tcagtgaggc acctatctca gcgatctgtc tatttcgttc atccatagtt gcctgactcc ccgtcgtgta gataactacg
2501  atacgggagg gcttaccatc tggccccagt gctgcaatga taccgcgaga cccacgctca ccggctccag atttatcagc aataaaccag ccagccggaa
2601  gggccgagcg cagaagtggt cctgcaactt tatccgcctc catccagtct attaattgtt gccgggaagc tagagtaagt agttcgccag ttaatagttt
2701  gcgcaacgtt gttgccattg ctacaggcat cgtggtgtca cgctcgtcgt ttggtatggc ttcattcagc tccggttccc aacgatcaag gcgagttaca
2801  tgatccccca tgttgtgcaa aaaagcggtt agctccttcg gtcctccgat cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg gttatggcag
2901  cactgcataa ttctcttact gtcatgccat ccgtaagatg cttttctgtg actggtgagt actcaaccaa gtcattctga gaatagtgta tgcggcgacc
3001  gagttgctct tgcccggcgt caatacggga taataccgcg ccacatagca gaactttaaa agtgctcatc attggaaaac gttcttcggg gcgaaaactc
3101  tcaaggatct taccgctgtt gagatccagt tcgatgtaac ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt tctgggtgag
3201  caaaaacagg aaggcaaaat gccgcaaaaa agggaataag ggcgacacgg aaatgttgaa tactcatact cttcctttttt caatattatt gaagcattta
3301  tcagggttat tgtctcatga gcggatacat atttgaatgt atttagaaaa ataaacaaat aggggttccg cgcacatttc cccgaaaagt gccacctgac
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```

## > RDC1164 Translated Insert Sequence

```
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101  asligiggpl lwetrlglaf lrgltyhdga lvtmepgyyy vyskvqlsgv gcpqglangl pithglykrt srypkelell vsrrspcgra nssrvwwdss
201  flggvvhlea geevvvrvpg nrlvrprdgt rsyfgafmv
```