

## Product datasheet for **SC220862**

### Gremlin 1 (GREM1) (NM\_013372) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Gremlin 1 (GREM1) (NM_013372) Human 3' UTR Clone
Symbol:	Gremlin 1
Synonyms:	C15DUPq; CKTSF1B1; CRAC1; CRCS4; DAND2; DRM; DUP15q; GREMLIN; HMPS; HMPS1; IHG-2; MPSH; PIG2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_013372
Insert Size:	2000 bp



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**Insert Sequence:**

>SC220862 3'UTR clone of NM\_013372

The sequence shown below is from the reference sequence of NM\_013372. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TGTCGTTGCATATCCATCGATTGGATTAAAGCCAAATCCAGGTGCACCCAGCATGTCTAGGAATGCAG
CCCCAGGAAGTCCAGACCTAAAACAACAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGAACCC
CCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCGTAGTTCGTGTGCATGAGTGTGGATGGGTGCCTGTGG
GTGTTTTTAGACACCAGAGAAAACACAGTCTCTGCTAGAGAGCACTCCCTATTTTGTAAACATATCTGC
TTAATGGGGATGTACCAGAAACCCACCTACCCCGGCTCACATCTAAAGGGGCGGGGCCGTGGTCTGG
TTCTGACTTTGTGTTTTGTGCCCTCCTGGGACCAGAATCTCCTTTCCGAATGAATGTTTCATGGAAGA
GGCTCCTCTGAGGGCAAGAGACCTGTTTTAGTGTCTGACATCGACATGGAAAAGTCTTTTAACTGTGC
TTGCATCTCCTTTCTCCTCCTCCTCACAAATCCATCTCTTCTTAAGTTGATAGTACTATGTCAGTCT
AATCTCTTGTGTTTCCAAAGTTTCTAAATTAATCACTTAACCATGATGCAAAATGTTTTTCATTTTGTGA
AGACCCTCCAGACTCTGGGAGAGCTGGTGTGGGCAAGGACAAGCAGGATAGTGGAGTGAAAAGGGAG
GGTGGAGGGTGGAGCCAAATCAGGTCCAGCAAAAGTCAAGTAGGGACATTCGAGAAGCTTGAAGGCCAA
TACCAGAACACAGGCTGATGCTTCTGAGAAAGTCTTTTCTAGTATTTAACAGAACCCAAGTGAACAGA
GGAGAAATGAGATTGCCAGAAAGTGATTAACCTTTGGCCGTTGCAATCTGCTCAAACCTAACACAAAAT
GAAAACATAAACTACTGACCACTCTATGTTCCGACCCAAGCAAGTTAGCTAAACCAAAACCAACTCCTCT
GCTTTGTCCTCAGGTGGAAAAGAGAGGTAGTTTAGAACTCTCTGCATAGGGGTGGGAATTAATCAAAA
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ACAGTAGTCTAAGATGAGAGAGTTTAGGGACTACTCTGTTTTAGCAAGAGATATTTGGGGTCTTTTT
GTTTTAACTATTGTCAGGAGATTGGGCTAAAGAGAAGACGACGAGAGTAAGGAAATAAAGGGAATTGCC
TCTGGCTAGAGAGTAGTTAGGTGTTAATACCTGGTAGAGATGTAAGGGATATGACCTCCCTTTCTTTAT
GTGCTCACTGAGGATCTGAGGGGACCCTGTTAGGAGAGCATAGCATCATGATGTATTAGCTGTTCATCT
GCTACTGGTTGGATGGACATAACTATTGAACTATTCAAGTATTTACTGGTAGGCACTGCCTCTGATTA
AACTTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGCCAAAGTGCAGGGTGGGTAACCTTA
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CTTTTGCCTTGTATCTTCTCAGCCTCCTAGCCAAGTCTATGTAATATGGAAAACAAACTGCAGAC
TTGAGATTCAGTTGCCGATCAAGGCTCTGGCATTAGAGAACCCCTGCAACTCGAGAAGCTGTTTTTAT
TTCGTTTTTGTGTTGATCCAGTGCTCTCCCATCTAACAATAAACAGGAGCCATTTCAAGGGCGGAGAT
ATTTTAAACACCCAAATGTTGGGTCTGATTTTCAAACCTTTAAACTCACTACTGATGATTTCTACGCT
AGGCGAATTTGTCCAAACACATAGTGTGTGTGTTTTGTATACACTGTATGACCCACCCCAATCTTT
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
    
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**Restriction Sites:**

SgfI-MluI

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:**

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:**

[NM\\_013372.7](#)

**Summary:**

This gene encodes a member of the BMP (bone morphogenic protein) antagonist family. Like BMPs, BMP antagonists contain cystine knots and typically form homo- and heterodimers. The CAN (cerberus and dan) subfamily of BMP antagonists, to which this gene belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted glycosylated protein encoded by this gene is likely due to its direct binding to BMP proteins. As an antagonist of BMP, this gene may play a role in regulating organogenesis, body patterning, and tissue differentiation. In mouse, this protein has been shown to relay the sonic hedgehog (SHH) signal from the polarizing region to the apical ectodermal ridge during limb bud outgrowth. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

**Locus ID:**

26585

**MW:**

75.7