

OriGene Technologies, Inc.

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Product datasheet for RC210835

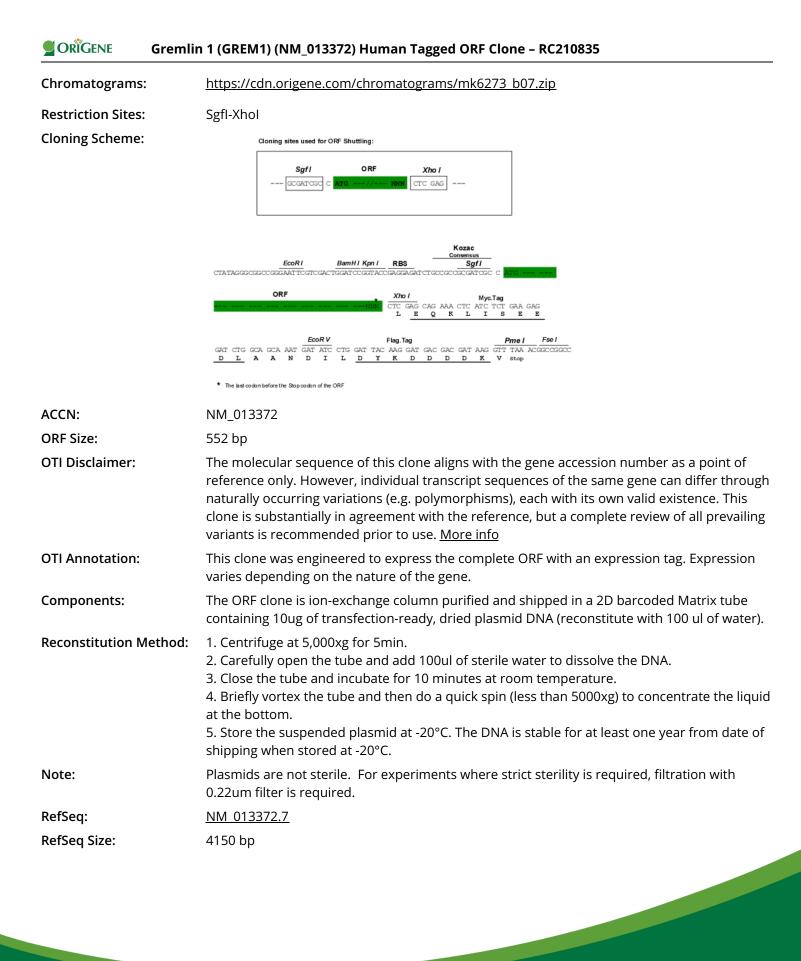
Gremlin 1 (GREM1) (NM_013372) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gremlin 1 (GREM1) (NM_013372) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gremlin 1
Synonyms:	C15DUPq; CKTSF1B1; CRAC1; CRCS4; DAND2; DRM; DUP15q; GREMLIN; HMPS; HMPS1; IHG-2; MPSH; PIG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC210835 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGCCGCACAGCCTACACGGTGGGAGCCCTGCTTCTCCTCTTGGGGACCCTGCTGCCGGCTGCTGAAG GGAAAAAGAAAGGGTCCCAAGGTGCCATCCCCCCGCCAGACAAGGCCCAGCACAATGACTCAGAGCAGAC TCAGTCGCCCCAGCAGCCTGGCTCCAGGAACCGGGGGCGGGGCCAAGGGCGGGGCACTGCCATGCCCGGG GAGGAGGTGCTGGAGTCCAGCCAAGAGGCCCTGCATGTGACGGAGCGCAAATACCTGAAGCGAGACTGGT GCAAAACCCAGCCGCTTAAGCAGACCATCCACGAGGAAGGCTGCAACAGTCGCACCATCATCAACCGCTT CTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGCAACAGCCGCAACAGTCGCCACACTCATCAACCGCTT TGCTCCTTCTGCAAGCCCAAGAAATTCACTACCATGATGGTCACACTCAACTGCCCTGAACTACAGCCAC CTACCAAGAAGAAGAGGCTCACACGTGTGAAGCAGTGTCGTTGCATATCCATCGATTTGGAT CTCGAGCAGAAACTCATCCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG ATAAGGTTTAA
Protein Sequence:	<pre>>RC210835 protein sequence Red=Cloning site Green=Tags(s) MSRTAYTVGALLLLLGTLLPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGRGTAMPG EEVLESSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHIRKEEGSFQS CSFCKPKKFTTMMVTLNCPELQPPTKKKRVTRVKQCRCISIDLD LEQKLISEEDLAANDILDYKDDDDKV</pre>



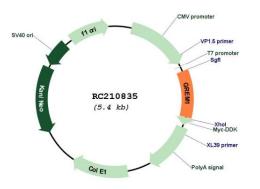
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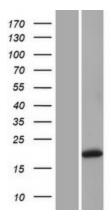
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	Gremlin 1 (GREM1) (NM_013372) Human Tagged ORF Clone – RC210835
RefSeq ORF:	555 bp
Locus ID:	26585
UniProt ID:	<u>O60565</u>
Cytogenetics:	15q13.3
Protein Families:	ES Cell Differentiation/IPS, Secreted Protein
MW:	20.7 kDa
Gene Summary:	This gene 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]

Product images:



Circular map for RC210835

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Western blot validation of overexpression lysate (Cat# [LY415632]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210835 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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