

Product datasheet for **SC307348**

GEM (NM_181702) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GEM (NM_181702) Human Untagged Clone
Tag:	Tag Free
Symbol:	GEM
Synonyms:	KIR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307348 representing NM_181702. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTCTGAATAATGTCACCATGCGCCAGGGCACTGTGGGCATGCAGCCACAGCAGCAGCGCTGGAGC
ATCCCAGCTGATGGCAGGCATCTGATGGTCCAGAAAGAGCCCCACCAGTACAGCCACCGCAACCGCCAT
TCTGCTACCCCTGAGGACCCTGCCGCCGAAAGCTGGTCTCTGACTCCACAGACTCAGTCATCTCTCT
GAGTCAGGGAACACCTACTACCGAGTGGTGTCTATAGGGGAGCAGGGGTGGGCAAGTCCACTCTGGCC
AACATCTTTGCAGGTGTGCATGACAGCATGGACAGCGACTGCGAGGTGCTGGGAGAAGATACATATGAA
CGAACCTGATGGTTGATGGGAAAAGTGAACGATTATACTCCTGGATATGTGGGAAAATAAGGGGGAA
AATGAATGGCTCCATGACCACTGCATGCAGGTCGGGGACGCATACCTGATTGTCTACTCAATCACAGAC
CGAGCGAGCTTCGAGAAGGCATCTGAGCTGCGAATCCAGTCCGCGAGGGCCCGGCAGACAGAGGACATT
CCCATAATTTTGGTTGGCAACAAAAGTACTTAGTGCGGTGCCGAGAAGTGTCTGTATCAGAAGGGAGA
GCCTGTGCAGTGGTGTGTTGACTGCAAGTTCATCGAGACCTCTGCAGCTGTCCAGCACAACGTGAAGGAG
CTGTTTGAAGGCATTGTGCGACAGGTGCCCTTCGGCGGGACAGCAAGGAGAAGAATGAACGGCGGCTG
GCCTACCAGAAAAGGAAGGAGAGCATGCCAGGAAAGCCAGGCGCTTCTGGGCAAGATCGTGGCCAAA
AACAAAGAATATGGCCTTCAAGCTCAAGTCCAAATCCTGCCATGACCTCTCTGTACTCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	□
ACCN:	NM_181702
Insert Size:	891 bp



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OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_181702.2
RefSeq Size:	2080 bp
RefSeq ORF:	891 bp
Locus ID:	2669
UniProt ID:	P55040
Cytogenetics:	8q22.1
Protein Families:	Druggable Genome
MW:	33.9 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to the RAD/GEM family of GTP-binding proteins. It is associated with the inner face of the plasma membrane and could play a role as a regulatory protein in receptor-mediated signal transduction. Alternative splicing occurs at this locus and two transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p>