

Product datasheet for **SC128239**

GEM (NM_005261) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GEM (NM_005261) Human Untagged Clone
Tag:	Tag Free
Symbol:	GEM
Synonyms:	KIR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005261 edited ATGACTCTGAATAATGTCACCATGCGCCAGGGCACTGTGGGCATGCAGCCACAGCAGCAG CGCTGGAGCATCCCAGCTGATGGCAGGCATCTGATGGTCCAGAAAGAGCCCCACCAGTAC AGCCACCGCAACCGCCATTCTGCTACCCCTGAGGACCACTGCCGCGAAGCTGGTCCTCT GACTCCACAGACTCAGTCATCTCCTCTGAGTCAGGGAACACCTACTACCGAGTGGTGCTC ATAGGGGAGCAGGGGGTGGCAAGTCCACTCTGGCCAACATCTTTGCAGGTGTGCATGAC AGCATGGACAGCGACTGCGAGGTGCTGGGAGAAGATACATATGAACGAACCCTGATGGTT GATGGGGAAAGTGCAACGATTATACTCCTGGATATGTGGGAAAATAAGGGGGAAAATGAA TGGCTCCATGACCACTGCATGCAGGTCGGGGACGCATACCTGATTGTCTACTCAATCACA GACCGAGCGAGCTTCGAGAAGGCATCTGAGCTGCGAATCCAGCTCCGCAGGGCCCCGGCAG ACAGAGGACATCCCATAATTTTGGTTGGCAACAAAAGTGACTTAGTGCGGTGCCGAGAA GTGTCTGTATCAGAAGGGAGAGCCTGTGCAGTGGTGTGGTGGTGGTGGTGGTGGTGGTGG TCTGCAGCTGTCCAGCACAACGTGAAGGAGCTGTTTGGAGGCATTGTGCGACAGGTGCGC CTTCGGCGGGACAGCAAGGAGAAGAATGAACGGCGGCTGGCTACCAGAAAAGGAAGGAG AGCATGCCAGGAAAGCCAGGCGCTTCTGGGGCAAGATCGTGGCCAAAACAACAAGAAT ATGGCCTCAAGCTCAAGTCCAATCCTGCCATGACCTCTGTACTCTAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005261 unedited</p> <pre> AAAAACAACCCCTGGNAACGTGCGCTCAGCACTGGGATTTTCTGGACTCAACGATGACTC TGAATAATGTCACCATGCGCCAGGGCACTGTGGGCATGCAGCCACAGCAGCAGCGCTGGA GCATCCCAGCTGATGGCAGGCATCTGATGGTCCAGAAAGAGCCCCACCAGTACAGCCACC GCAACCGCCATTCTGCTACCCCTGAGGACCACTGCCGCCGAAGCTGGTCTCTGACTCCA CAGACTCAGTCATCTCCTCTGAGTCAGGGAACACCTACTACCGAGTGGTGCTCATAGGGG AGCAGGGGGTGGCAAGTCCACTCTGGCCAACATCTTTGCAGGTGTGCATGACAGCATGG ACAGCGACTGCGAGGTGCTGGGAGAAGATACATATGAACGAACCCCTGATGGTTGATGGGG AAAGTGC AACGATTATACTCCTGGATATGTGGGAAAAT AAGGGGAAAATGAATGGCTCC ATGACCACTGCATGCAGGTGGGGACGCATACCTGATTGTCTACTCAATCACAGACCGAG CGAGCTTCGAGAAGGCATCTGAGCTGCGAATCCAGCTCCGAGGGCCCGCAGACAGAGG ACATCCATAATTNTGGTTGGCAACANAAGTGACTTAGTGCGGTGCCGAGAAGTGTCTG TATCAGAAAGGAGAGCCTGTGCAGTGGGTGTTGACTGCAAGTTCATCGAGACCTCTGCAG CTGTCCAGCACACGTGAAAGAGCTGTTTGAGGGCATTGTGCGACAGGTGCGCCCTCGGC GGNACAGNCAGGAGAGGATGAACGGCGGCTGGCCTACCAGAAAAGAAGGANACATGCCCCA GNAAGCAGCCGCTTCTGGGCAGATCGTCCAAAACAACAGAATATGCCTTAA </pre>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_005261 unedited</p> <pre> GCTTAATGCACANACCCACGATTTTCGANAAGCATCTAGGCTGCGAATCCAGCTCCGCAGG GCCCGGCAGACAGAGGACATTCCATAATTTTGGTTGGCAACAAAAGTGACTTAGTGCGG TGCCGAGAAGTGTCTGTATCAGAAAGGAGAGCCTGTGCAGTGGTGTGACTGCAAGTTC ATCGAGACCTCTGCAGCTGTCCAGCACACGTGAAAGAGCTGTTTGAGGGCATTGTGCGA CAGGTGCGCCTTCGGCGGGACAGCAAGGAGAAGAATGAACGGCGGCTGGCCTACCAGAAA AGGAAGGAGAGCATGCCAGGAAAGCCAGGCGCTTCTGGGGCAAGATCGTGGCCAAAAC AACAGAATATGGCCTTCAAGCTCAAGTCCAAATCCTGCCATGACCTCTCTGACTCTAG GAACCCAGGGTCACCCAGATGTCCCTTTGATGGCCGTTGTTGAAGGCCATTGGGACCAAT AATCTATATTAGATTGAATACTTAAGTTAGATGTGGTTTCCCCATTGTAGCAGGGAGCT AGCGTATTAGCCTTGTGGGCAACATGATGCATGGGAAATGAAAGATTTTGTAAAAAGTC AGTATTTATTTCCAGGAAAAGCCTGACCTTGCTATTTGAACACCCAAGACTCTTTAGAGG ATGTNGTTGGTGTTCACATGTGTTTCTTCTATTTTGGATAGTGGGAAGTAAAGCTTACA AAGAATGCCTAGNNACAGAACTTTCATCATTAAAATTTTCCCAGTGGTCTGATATGTGA CTTTGAAGCAATGAGTCATAACAATATAGAAAGCTGTCATGAGTTCTTCAAAGGAGGAAA ACTTCTACGATCTTAGATCATGGACTAGNATGGGGACTAGCTCACAGATCGTACTATAT GCTCCTCCACTGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005261
Insert Size:	2100 bp
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).
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_005261.2 , NP_005252.1
RefSeq Size:	2205 bp
RefSeq ORF:	891 bp
Locus ID:	2669
UniProt ID:	P55040
Cytogenetics:	8q22.1
Domains:	ras, RAS, RHO, RAB
Protein Families:	Druggable Genome
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 (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>