

Product datasheet for **SC127022**

GREM2 (NM_022469) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GREM2 (NM_022469) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | GREM2 |
| Synonyms: | CKTSF1B2; DAND3; PRDC; STHAG9 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC127022 sequence for NM_022469 edited (data generated by NextGen Sequencing) |

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ATGTTCTGGAAGCTTTCCTGTCTTGTTCCTGGTGGCGGTGCTGGTGAAGGTGGCGGAA
GCCCCGAAGAACCGGCCGCGGGCGCCATCCCCTCGCCTTACAAGGACGGCAGCAGCAAC
AACTCGGAGAGATGGCAGCACCAGATCAAGGAGGTGCTGGCCTCCAGCCAGGAGGCCCTG
GTGGTCACCGAGCGCAAGTACCTCAAGAGTGACTGGTGAAGACGCAGCCGCTGCGGCAG
ACGGTGAGCGAGGAGGGCTGCCGGAGCCGACCATCCTCAACCGTTCTGCTACGGCCAG
TGCAACTCCTTCTACATCCCGCGGCACGTGAAGAAGGAGGAGGAGTCTTCCAGTCTGCG
GCCTTCTGCAAGCCCCAGCGCGTCACCTCCGTCTCGTGGAGCTCGAGTGCCCCGGCCTG
GACCCACCCTTCCGACTCAAGAAAATCCAGAAGGTGAAGCAGTGCCGGTGCATGTCCGTG
AACCTGAGCGACTCGGACAAGCAGTGA
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Clone variation with respect to NM_022469.3



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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_022469 unedited AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTCTCAAAAAAAAAAGAA GAAGAAAAAGAAAAGAAAAGAAAATGAGAGCACTCAGAGCTGAGTCCACGTGAGGGAGC AGGCAGACGCCTTGCAGCCATCTCACTAGTCTGGGCTTTGAAGATTGCTGTTGGATGTTT TGGAAAGCTTTCCCTGTCTTGTTCCTGGTGGCGGTGCTGGTGAAGGTGGCGGAAGCCCGG AAGAACCGGCCGGCGGGGCCATCCCCTCGCCTTACAAGGACGGCAGCAGCAACAACG GAGAGATGGCAGCACAGATCAAGGAGGTGCTGGCCTCCAGCCAGGAGGCCCTGGTGGTC ACCGAGCGCAAGTACCTCAAGAGTGACTGGTGCAAGACGACGCCGCTGCGGCAGACGGTG AGCGAGGAGGGCTGCCGAGCCGACCATCCTCAACCGCTTCTGTACGGCCAGTGAAC TCCTTCTACATCCCAGCGCACGTGAAGAAGGAGGAGGAGTCTTCCAGTCTGCGCCTTC TGCAAGCCCCAGCGCGTACCTCCGTCCTCGTGGAGCTCGAGTCCCCGGCCTGGACCCA CCCTTCCGACTCAAGAAAATCCAGAAGGTGAAGCAGTGCCGGTGCATGTCCGTGAACCTG AGCGACTCGGACAAGCAGTGAGCGCCGGTCCGACGCAGTCCATCCGCGCGCGCCCGT CGCTGGGTGGCGCCGNCGTGACTNTGTTCTGACCTACGAGCCACTGTACGCTGGCT GGTGNNTCCCCCTCAGCAGCAGCACTTCTTAGGCTGACGGTGTCTTGTACAGACGTG GATCGCAGGGNAGCTTTGCTGATGTGTTCTGACCGACCCGNTCCCACTGTCCCCCTAAC AGCGGGGATCAGCCCAGGAATGCTGAAACACACCGCCCCAC |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_022469 |
| 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_022469.3 , NP_071914.3 |
| RefSeq Size: | 4199 bp |
| RefSeq ORF: | 507 bp |
| Locus ID: | 64388 |
| UniProt ID: | Q9H772 |
| Cytogenetics: | 1q43 |
| Domains: | DAN, CT |
| Protein Families: | Secreted Protein |

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. [provided by RefSeq, Jul 2008]