

Product datasheet for **RG220773**

G protein regulated inducer of neurite outgrowth 2 (GPRIN2) (NM_014696) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein regulated inducer of neurite outgrowth 2 (GPRIN2) (NM_014696) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	G protein regulated inducer of neurite outgrowth 2
Synonyms:	GRIN2; KIAA0514
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220773 representing NM_014696
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCTCCAGCCACCCGAGCCGGTCCCTGGGCACCCCTGAGCCCCGCCCTTACGCCCTGTCCAGA
 GCTCTCCAGCCTGCTGGGTGAAGGCCGGGAACAGAGGCCAGAGCTCCACAAGACTGCCAGCAGCACCAT
 GTGGCAGGCCAGCTGGGCGAGGCCAGCACCAGACCCAGGCCCGGAGGAAGAGGGGAACCCGCCCTGAG
 AGCATGAAGCCAGCACGGGCTCTGGCCCAAGGCGGACCCAGTGTGGAGGCCACTGGCGGAGCAGCA
 CTGTGGGCAATGTGTCCACCATGGGCGGTGGTACCTTTGTGCGCTGCGGGCCCCAGTGTCTGTCTAT
 GCAGAGGAGCCATTAGACCTGGTCCGTAGCACCCAGATGCGGGGACACAGTGGTGTCTCGGAAGGCCAGT
 CTCAGTGTCTCAGCCCTGGCAGCAGCCCTGTCCACAGGGCTCAGCTGCAGCCAGTGGTACTTCTGGCC
 AGGGTGGCCAGGCCCTGCAGGCCCTGAAAGGGACCTGGCTCCTGAGGATGAGACTTCTAACTCAGCCTG
 GATGCTGGGGGCGAGTCAGTTGTCGGTGCCACCTAGACCTGGGGGACACAACCTGCCACAGCAGCAGT
 GCCCAGGCTGAGCCAAAGCTGTGAACAGCTGGCTACCACCACCTGCCATGCTCTGCCCCAGCTGCTC
 TACTCTGTGGCATGAGGGAGATGAGGGAGTGGGGCTGGTGGCTGTGCCATGCCCTACCTGCCACAGG
 GATCCTGGCCTTTCCAAACTAGTGGCGTCACTGAGCGAGTCTGGGCTGCAGGCTCAGCATGGGGTGAAG
 ATCCACTGTAGTTGTCTGGGGGCTCCCTGGGCACTCCATTGCTGTGCCACCTTTGGGGTCCCCTG
 GGTTAGTCCCAGAGCCTGGCTCTAGGACCAAAGATGTGTGGACCATGACCTCAGCCAATGACTTGGCCCC
 TGCAGAGGCATCCCCGCTGTGAGCCAGGATGCTGGTGTGCAGGGCGCCCAAGTGGCGGCTGCAAGGCT
 GTGGCCACCAGTCCGTCCTGGAAGCGCCTGCAGCCCTGCATGTGTTCCAGAGGTAACCTGGGGTCCA
 CGGAGTGCAGGAGGCCCGGAGGTGCTCGGTGTGGCCATCCAGAAGCACCTGGAGATGCAGTTTGAGCAG
 CTGCAGCGGGCGCCTGCCAGCGAGGACAGCCTGTCTGTGGAGGGCCGGAGGGGGCCGCTGCGGGCTGTCA
 TGCAGTCCCTGCGGCGCCCCAGCTGCTGCGGCTGCTCTGGCGCGGCCCCCGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220773 representing NM_014696
 Red=Cloning site Green=Tags(s)

MSSSHPEPGWPAPLSPRLQPLSQSSSSLLGEGREQRPELHKTASSTMWQAQLGEASTRPQAPPEEEGNPPE
 SMKPARASGPKARPSAGGHWSSTVGNVSTMGGDL CRLRAPSAAMQRSHSDLVRSTQMRGHSGARKAS
 LSCSALGSSPVHRAQLQPGGTSQGGQAPAGLERDLAPEDETSNSAWMLGASQLSVPPLDLGDTTAHSSS
 AQAEPKAAEQLATTTCHALPPAALLCGMREMREVAGGCCHALPATGILAFPKLVASVSESLQAQHGK
 IHCRLSGGLPGHSHCCAHLWGPAGLVPEPGSRTKDVWTMTSANDLAPAEASPLSAQDAGVQAAPVAACKA
 VATSPSLEAPAALHVFPEVTLGSSLEEAPSPVRDVRWDAEGMTWEVYGAADVPEVLGVAIQHLEMQFEQ
 LQRAPASEDSLVEGRRGPLRAVMQSLRRPSCCGCSGAAP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_014696

ORF Size: 1383 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_014696.2](#), [NP_055511.1](#)

RefSeq Size: 1896 bp

RefSeq ORF: 1377 bp

Locus ID: 9721

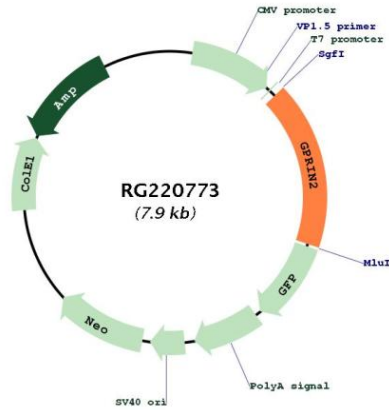
UniProt ID: [O60269](#)

Cytogenetics: 10q11.22

Protein Families: Stem cell - Pluripotency

Gene Summary: May be involved in neurite outgrowth.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG220773