

Product datasheet for **RG219053**

NIR1 (PITPNM3) (NM_031220) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NIR1 (PITPNM3) (NM_031220) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PITPNM3 |
| Synonyms: | ACKR6; CORD5; NIR1; RDGBA3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG219053 representing NM_031220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGGCGGGCGTGCAGGTGGTCTCCCCGGGCGGGTGGCCCTGGCACCTCGAAATGTCC
 TCAGTGACTCTGTGGAGAGCTCAGATGATGAATCTTTGATGCCAGAGAGGAGATGGCTGAAGGGAAGAA
 TGCCATCCTCATTGGGATGAGCCAGTGGAACTCCAATGACCTCGTGGAGCAGATCGAGACCATGGGGA
 CTGGACGAGCATCAAGGAGAAGGGACCGCCGTGCACATCCAGCATCCTCCAGGAGAAGCAGCGAGAAC
 TGTACCGGTTTCTTGAGAAGACAGAGTTCCAGCCAGGGAAGCATCGAGATCCACGAAGACAGCGA
 GGAAGGCTGCCCCGAGCGCTCCTGCAAGACACATGTCTCTGCTGGTCTGCATGGGGAAACATCTGT
 GACACGGGTGCCGGGACCCGCTCCTGCAAGGCAGCCGACATCCACACCTTCAGCTCCGTGCTGGAGAAG
 TCACACGAGCCATTTCCCTGCTGCCCTGGCCACATCCTCATCAAGTTCGTCCTGCTGCCATCTG
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 CAGGACCACGTCCCTCTGGCCGCCCTCCCTGTTGGCCATCTCCTCCCCGAGTACCAGGATGCTGTCC
 CCACCGTCATCGAGCGAGCCAACCAGGTCTACAGAGAGTTCTGAAGTCCTCTGATGGGATTGGCTTCAG
 TGGGCAGGTGTGTCTCATCGGGACTGTGTGGGGGCTCCTGGCCTTCGATGCCATCTGCTACAGTGGC
 GGGCCCTCAGGGGACAGCCCTGCCAGCAGCAGCCGAAGGGGAGCATCAGCAGCACCAGGACACCCAG
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 AATGTCACGGCTAATCACCGGGCCAATGATGTGATTGCTGCTGAAGATGGCCCCAGGTCCTGGTGGGGC
 GGTTATGTACGGGCCCTCGACATGGTGGCTCTGACTGGAGAGAAGGTGGACATCCTAGTAATGGCAGA
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 GTGCCATGAGCTACCTCACGGTGTGGCCAGGGCATGGAGTGTGTAGTGTTCAGCATTGATGGTCCCT
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 GCGGCAGAAGGCCATCTTCTGCGCAACCTCATGCAGGAGTGTTCATCAAAATCAGTGGCCCTATGGC
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 CACGCGCAGCCAGAGTTCCTGCGGAAGCGCAACCACCTGCGCAGAACCATGTCAGTGCAGCAGCCCGACC
 CGCCCGCCGCAACCCAAAGCCGAGCGGGCCAGAGCCAGCCGAGTGGACAAAGACCACGAGCGGCC
 GCTGCCGCGCTCAGCTGGGCGCGTGGGCCCCCAAGTTCGAGTGGTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219053 representing NM_031220
 Red=Cloning site Green=Tags(s)

MAKAGRAGPPPPGGGAPWHLRNVLSDSVESDDEFFDAREEMAEGKNAILIGMSQWNSNDLVEQIETMGK
 LDEHQEGGTAPCTSSILQEKQRELYRVSLRRQRFPAQGSIEIHEDSEEGCPQRSCKTHVLLLVLHGGNLL
 DTGAGDPSCKAADIHTFSSVLEKVTRAHFPAALGHILIKFVPCPAICSEAFSLVSHLNPYSHDEGLSSS
 QDHPPLAALPLLAISSPQYQDAVATVIERANQVYREFLKSSDGI GFSGQVCLIGDCVGGLLAFDAICYSA
 GPSGDSPASSSRKGSISSTQDTPVAVEEDCSLASSKRLSKSNIDISSGLEDEEPKRPLPRKQSDSSTYDC
 EAITQHHAFLSSIHSSVLKDESETPAAGGPQLPEVSLGRFDFDVSDFFLFGSPLGLVLAAMRRTVLPGLDG
 FQVRPACSVYVFFHCADPSASRLEPLLEPKFHLVPPVSVPRYQRFPLGDGQSLLLADALHHSPLFLEG
 SSRDSPPLLDAPASPPQASRFQRPGRMSEGSSHSESSESSESDMAPVGASRITAKWWGSKRIDYALYCPD
 VLTAFPTVALPHLFHASYWESTDVVAFILRQVMRYESVNIKESARLDPAALSPANPREKWLKRKTQVKLR
 NVTANHRANDVIAAEDGPQVLVGRFMYGPLDMVALTGEKVDILVMAEPSSGRWVHLDTEITNSSGRITYN
 VPRPRRLGVGVYVKMVVRGDQTCAMSYLTVLPRGMECVVFSIDGSFAASVSIMGSDPKVRPGAVDVVRH
 WQDLGYMILYITGRPDMQKQRVVSWLSQHNFPQGMIFFSIDLVDHPLRQKAIFLRNLMQECFIKISAAYG
 STKDISVYSVLGLPASQIFIVGRPTKKYQTQCQFLSEGYAAHLAVLEASHRSRPKKNNSMILLKGSFGL
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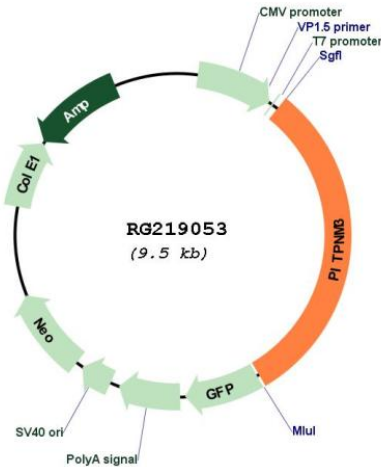
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031220

ORF Size: 2922 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_031220.2](#)

RefSeq Size: 3109 bp

RefSeq ORF: 2925 bp

Locus ID: 83394

UniProt ID: [Q9BZ71](#)

Cytogenetics: 17p13.2-p13.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of a family of membrane-associated phosphatidylinositol transfer domain-containing proteins. The calcium-binding protein has phosphatidylinositol (PI) transfer activity and interacts with the protein tyrosine kinase PTK2B (also known as PYK2). The protein is homologous to a Drosophila protein that is implicated in the visual transduction pathway in flies. Mutations in this gene result in autosomal dominant cone dystrophy. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]