

Product datasheet for **RG228620**

NIR1 (PITPNM3) (NM_001165966) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIR1 (PITPNM3) (NM_001165966) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NIR1
Synonyms:	ACKR6; CORD5; NIR1; RDGBA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228620 representing NM_001165966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGGCGGGCGTGCAGGTGGTCTCCCCGGGCGGGTGGCCCTGGCACCTCGAAATGTCC
 TCAGTGACTCTGTGGAGAGCTCAGATGATGAATTCCTTTGATGCCAGAGGAGAAGGACCGCGCCGTGCAC
 ATCCAGCATCCTCCAGGAGAAGCAGCGAGAAGTGTACCGGGTTTCTTGAGAAGACAGAGGTTCCAGCC
 CAGGGAAGCATCGAGATCCACGAAGACAGCGAGGAAGGCTGCCCGCAGCGCTCCTGCAAGACACATGTCC
 TCCTGCTGGTCTGCATGGGGAAACATCCTGGACACGGGTGCCGGGACCCGTCCTGCAAGGCAGCCGA
 CATCCACACCTTCAGCTCCGTGCTGGAGAAGGTACACAGAGCCATTTCCCTGCTGCCCTGGGCCACATC
 CTCATCAAGTTCGTCCTGCTGCCATCTGCTCTGAGGCTTTCTCGTTGTCTCTCACCTGAACCCCT
 ACAGCCACGATGAGGGCTGCCTCAGCAGCAGCCAGGACCAGTCCCTCTGGCCGCCCTCCCTGTTGGC
 CATCTCCTCCCCGAGTACCAGGATGCTGTGCCACCGTCATCGAGCGAGCCAACAGGTCTACAGAGAG
 TTCTGAAGTCTCTGATGGGATTGGCTTCAGTGGGCAGGTGTGTCTATCGGGGACTGTGTGGGGGGCC
 TCCTGGCCTTCGATGCCATCTGCTACAGTGCGGGGCCCTCAGGGGACAGCCCTGCCAGCAGCAGCCGAA
 GGGGAGCATCAGCAGCACCCAGGACACCCAGTCGCGGTGGAGGAAGATTGCAGCCTGGCCAGCAGCAAG
 CGTCTCAGCAAAAGCAACATTGACATCTCCAGTGGGTTGGAGGATGAGGAGCCCAAGAGGCCGTTGCCGC
 GGAAACAGAGCGACTCCTCCACCTATGACTGCGAGGCCATCACCCAGCACCATGCCTTCTCTCAAGCAT
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 CTTCATTGCGCAGACCCCTCTGCCTCAGGGCTCGAGCCACTGCTGGAGCCCAAGTTCACCTGGTGCCG
 CCTGTCAGCGTGCCTCGCTACCAGAGGTTCCACTGGGGGATGGGAGTCCCTCCTCCTCGTGTATGCC
 TACACACCCACAGCCCTCTTCTGGAGGGCAGCTCCCGGGACAGCCGCCACTTCTGGATGCCCTGC
 CTCGCCCCCTCAGGCCTCGAGGTTCCAGCGCCCAGGACGGAGGATGAGCGAGGGGAGCTCCACAGCGAG
 AGCTCGGAGTCTCGACAGCATGGCACCCGTGGGTGCCCTCCCGCATCACAGCCAAGTGGTGGGGAAGCA
 AGAGGATCGACTATGCCCTGTACTGCCCTGATGTCCTCACGGCTTCCCCACCGTGGCCCTGCCCACT
 CTTCCACGCCAGTACTGGGAGTCCACAGAGTGGTGGCCTTTCATCCTGAGACAGGTAATGCGCTATGAG
 AGCGTGAACATCAAGGAAAGCGCCGCTGGACCTGCAGCACTGAGTCTGCCAACCCCGGGAGAAGT
 GGCTTCGTAAAGCGACTCAGGTCAAGCTGAGGAATGTCACGGCTAATCACCGGGCCAATGATGTGATTGC
 TGCTGAAGATGGCCCCAGGTCCTGGTGGGGCGGTTTCATGTACGGGCCCTCGACATGGTGGCTCTGACT
 GGAGAGAAGTGGACATCCTAGTAATGGCAGAGCCATCCTCAGGCCGCTGGGTACACCTGGACACAGAGA
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 TGTGAAGATGGTGTGAGGGGCGACAGCCTGTGCCATGAGTACCTCACGGTGTGGCCAGGGGCATG
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 ACGGCCGGACATGCAGAAGCAGCGGGTGGTGTGCTGGCTGTCCCAGCACAACTTCCACAGGGCATGATC
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 GAGGGCTACGCCGCACACCTGGCCGCGCTGGAGGCCAGCCACCGCTCACGCCAAAGAAGAACAACCTCGC
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 GCGCAGAACCATGTCAGTGCAGCAGCCGACCCGCGCCGCCAACCCAAAGCCGAGCGGGCCAGAGC
 CAGCCCGAGTCGGACAAAGACCAGAGCGGCCGCTGCCGGGCTCAGCTGGGCGCTGGGCCCCCAAGT
 TCGAGTCGGTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228620 representing NM_001165966
 Red=Cloning site Green=Tags(s)

MAKAGRAGPPPPGGGAPWHLRNVLSDSVESDDEFFDARGEPTAPCTSSILQEKQRELYRVSLRRQRFP
 QGSIEIHEDSEEGCPQRSCKTHVLLLVLHGGNILDGTAGDPSCKAADIHTFSSVLEKVTRAHFPAALGHI
 LIKFVPCPAICSEAFSLVSHLNPYSHDEGLSSSQDHPVLAALPLLAISSPOYQDAVATVIERANQVYRE
 FLKSSDGI GFSGQVCLIGDCVGLLAFDAICYSAGPSGDSPASSSRKGSISSTQDTPVAVEEDCSLASSK
 RLKSNIDISSGLEDEEPPKRPLPRKQSDSSTYDCEAITQHHAFLSSIHSSVLKDESETPAAGGPQLPEVS
 LGRFDFDVSDFFLFGSPLGLVLA MRRTVLPGLDGFQVRPACSQVYSFFHCADPSASRLEPLLEPKFHLVP
 PVSVPYRQRFPLGDGQSLLLADALHTHSPLFLEGSSRDSPLLDAPASPPQASRFQRPGRMSEGS
 SSES SSMAPV GASRITAKWWGSKRIDYALYCPDVLTAFTVALPHLFHASYWESTDVVAFILRQVMRYE
 SVNIKESARLDPAALSPANPREKWLKRTQVKLRNVTANHRANDVIAAEDGPQVLVGRFMYGPLDMVALT
 GEKVDILVMAEPSSGRWVHLDTEITNSSGRITYNVPRPRLG VGVYPVKM VVRGDQTCAMSYLTVLPRGM
 ECVVFSIDGSFAASVSIMGSDPKVVRGAVDVVRHWQDLGYMILYITGRPDMQKQVVSWLSQHNFQGM
 IFFSDGLVHDPLRQKAI FLRNLMQECFIKISAAYGSTKDISVYSVLGLPASQIFIVGRPTKKYQTQCQFLS
 EGYAAHLAALEASHRSRPKNNSRMILRKGSFGLHAQPEFLRKRNLRRTMSVQQPDPPAANPKPERAQS
 QPESDKDHERPLPALSWARGPPKFESVP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

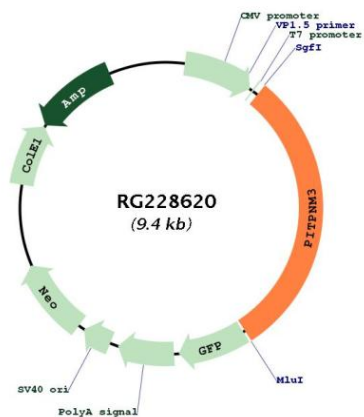


ACCN: NM_001165966

ORF Size: 2814 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:	<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_001165966.2
RefSeq Size:	7053 bp
RefSeq ORF:	2817 bp
Locus ID:	83394
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]

Product images:



Circular map for RG228620