

## Product datasheet for **RC228620**

### **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:	Myc-DDK
Symbol:	NIR1
Synonyms:	ACKR6; CORD5; NIR1; RDGBA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC228620 representing NM\_001165966  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAAGGCGGGCCGTGCAGGTGGTCTCCCCGGGCGGGTGGCCCTGGCACCTCGAAATGTCC  
 TCAGTGACTCTGTGGAGAGCTCAGATGATGAATTCCTTTGATGCCAGAGGAGAAGGGACCCGCGCGTGCAC  
 ATCCAGCATCCTCCAGGAGAAGCAGCGAGAAGTGTACCGGGTTTCTTGAGAAGACAGAGGTTCCAGCC  
 CAGGGAAGCATCGAGATCCACGAAGACAGCGAGGAAGGCTGCCCGCAGCGCTCCTGCAAGACACATGTCC  
 TCCTGCTGGTCTGCATGGGGAAACATCTGGACACGGGTGCCGGGACCCGCTCCTGCAAGGCAGCCGA  
 CATCCACACCTTCAGCTCCGTGCTGGAGAAGGTACACAGAGCCATTTCCCTGCTGCCCTGGGCCACATC  
 CTCATCAAGTTCGTCCTGCTGCCATCTGCTCTGAGGCTTTCTGCTGTCTCTCACCTGAACCCCT  
 ACAGCCACGATGAGGGCTGCCTCAGCAGCAGCCAGGACCAGTCCCTCTGGCCGCCCTCCCTGTTGGC  
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 TTCTGAAGTCTCTGATGGGATTGGCTTCAGTGGGCAGGTGTGTCTATCGGGGACTGTGTGGGGGGCC  
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 GGGGAGCATCAGCAGCACCCAGGACACCCAGTCGCGGTGGAGGAAGATTGCAGCCTGGCCAGCAGCAAG  
 CGTCTCAGCAAAAGCAACATTGACATCTCCAGTGGGTTGGAGGATGAGGAGCCCAAGAGGCCGTTGCCGC  
 GGAAACAGAGCGACTCCTCCACCTATGACTGCGAGGCCATCACCCAGCACCATGCCTTCTCTCAAGCAT  
 CCACTCCAGCGTGTAAAGGATGAGTCTGAGACCCCGCGGCTGGGGGGCCGAGCTCCCTGAGGTGAGC  
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 AGAGGATCGACTATGCCCTGTACTGCCCTGATGTCTCACGGCTTCCCCACCGTGGCCCTGCCCACT  
 CTTCCACGCCAGTACTGGGAGTCCACAGAGTGGTGGCTTTCATCTGAGACAGGTAATGCGCTATGAG  
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 GGCTTCGTAAAGCGACTCAGGTCAAGCTGAGGAATGTCACGGCTAATCACCGGGCAATGATGTGATTGC  
 TGCTGAAGATGGCCCCAGGTCCTGGTGGGGCGGTTTCATGTACGGGCCCTCGACATGGTGGCTCTGACT  
 GGAGAGAAGTGGACATCCTAGTAATGGCAGAGCCATCCTCAGGCCGCTGGGTACACCTGGACACAGAGA  
 TCACCAACAGCAGTGGTGCATCACATACAATGTGCCCGGCCCGCGCCTGGGGGTTGGTGTCTATCC  
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 GAGTGTGATGTTTACGATTGATGGGTCTTCGCGGCCAGCGTGTCTATCATGGGAAGCGACCCCAAGG  
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 GCGCAGAACCATGTCAGTGCAGCAGCCGACCCGCGCCGCCAACCCAAAGCCGAGCGGGCCAGAGC  
 CAGCCCGAGTCGACAAAGACCAGAGCGGCCGCTGCCGGGCTCAGCTGGGCGCTGGGCCCCCAAGT  
 TCGAGTCGGTCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228620 representing NM\_001165966  
 Red=Cloning site Green=Tags(s)

MAKAGRAGPPPPGGGAPWHLRNVLSDSVESDDEFFDARGEGETAPCTSSILQEQREL YRVSLRRQRFP  
 QGSIEIHEDSEEGCPQRSCKTHVLLLVHGGNILDGTAGDPSCKAADIHTFSSVLEKVTRAHFPAALGHI  
 LIKFVPCPAICSEAFSLVSHLNPYSHDEGLSSSQDHPVLAALPLLAISSPOYQDAVATVIERANQVYRE  
 FLKSSDGI GFSGQVCLIGDCVGGLLAFDAICYSAGPSGDSPASSSRKGSISSTQDTPVAVEEDCSLASSK  
 RLKSNIDISSGLEDEEPPKRPLPRKQSDSSTYDCEAITQHHAFLSSIHSSVLKDESETPAAGGPQLPEVS  
 LGRFDFDVSDFFLFGSPLGLV LAMRRTVLPGLDGFQVRPACSQVYSFFHCADPSASRLEPLLEPKFHLVP  
 PVSVPYRQRFPLGDGQSLLLADALHTHSPLFLEGSRRDSPPLLDAPASPPQASRFQRPGRMSEGSSHSE  
 SSESSDSDMAPVGASRITAKWWGSKRIDYALYCPDVLTAFTVALPHLFHASYWESTDVVAFILRQVMRYE  
 SVNIKESARLDPAALSPANPREKWLKRTQVKLRNVTANHRANDVIAAEDGPQVLVGRFMYGPLDMVALT  
 GEKVDILVMAEPSSGRWVHLDTEITNSSGRITYNVPRRRLG VGVVYPVKM VVRGDQTCAMSYLTVLPRGM  
 ECVVFSIDGSFAASVSIMGSDPKVVRPGAVDVVRHWQDLGYMILYITGRPDMQKQVVSWLSQHNFQGM  
 FFSDGLVHDPLRQKAI FLRNLMQECFIKISAAYGSTKDISVYSVLGLPASQIFIVGRPTKKYQTQCFLS  
 EGYAAHLAALEASHRSRPPKNNSRMILRKGSFGLHAQPEFLRKRNLRRTMSVQQPDPPAANPKPERAQS  
 QPESDKDHERPLPALSWARGPPKFESVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

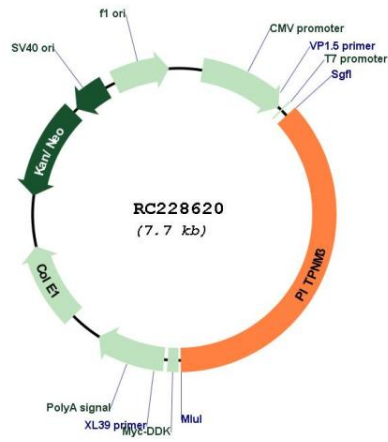


ACCN: NM\_001165966

ORF Size: 2814 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001165966.2</a>
<b>RefSeq ORF:</b>	2817 bp
<b>Locus ID:</b>	83394
<b>Cytogenetics:</b>	17p13.2-p13.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	102.5 kDa
<b>Gene Summary:</b>	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 RC228620