

Product datasheet for **RC219053**

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:	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:

>RC219053 representing NM_031220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGGCGGGCGTGCAGGTGGTCTCCCCGGGCGGGTGGCCCTGGCACCTCGAAATGTCC
 TCAGTGACTCTGTGGAGAGCTCAGATGATGAATCTTTGATGCCAGAGAGGAGATGGCTGAAGGGAAGAA
 TGCCATCCTCATTGGGATGAGCCAGTGGAACTCCAATGACCTCGTGGAGCAGATCGAGACCATGGGGAAA
 CTGGACGAGCATCAAGGAGAAGGGACCGCCGTGCACATCCAGCATCCTCCAGGAGAAGCAGCGAGAAC
 TGTACCGGTTTCTTGAGAAGACAGAGTTCCAGCCAGGGAAGCATCGAGATCCACGAAGACAGCGA
 GGAAGGCTGCCCCGAGCGCTCCTGCAAGACACATGTCTCTGCTGGTCTGCATGGGGAAACATCCTG
 GACACGGGTGCCGGGACCCGCTCCTGCAAGGCAGCCGACATCCACACCTTCAGCTCCGTGCTGGAGAAGG
 TCACACGAGCCATTTCCCTGCTGCCCTGGGCCACATCCTCATCAAGTTCGTCCTGCTGCCATCTG
 CTCTGAGGCTTTCTCGTTGTCTCTCACCTGAACCCCTACAGCCAGATGAGGGTGCCTCAGCAGCAGC
 CAGGACCACGTCCCTCTGGCCGCCCTCCCTGTTGGCCATCTCCTCCCCGAGTACCAGGATGCTGTCG
 CCACCGTCATCGAGCGAGCCAACCAGGTCTACAGAGAGTCTGAAGTCCTCTGATGGGATTGGCTTCAG
 TGGGCAGGTGTGTCTCATCGGGACTGTGTGGGGGCTCCTGGCCTTCGATGCCATCTGCTACAGTGCG
 GGGCCCTCAGGGGACAGCCCTGCCAGCAGCAGCCGAAGGGGAGCATCAGCAGCACCAGGACACCCAG
 TCGCGTGGAGGAAGATTGCAGCCTGGCCAGCAGCAAGCGTCTCAGAAAAAGCAACATTGACATCTCCAG
 TGGGTTGGAGGATGAGGAGCCAAAGAGGCCGTTGCCGCGAAACAGAGCGACTCCTCCACCTATGACTGC
 GAGGCCATCACCAGCACCATGCCTTCTCTCAAGCATCCACTCCAGCGTGTCTAAAGGATGAGTCTGAGA
 CCCCAGCGGCTGGGGGGCCGAGCTCCCTGAGGTCAGCCTGGGCGCTTTGACTTCGATGTGTCGACTT
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 CAGGACGGAGGATGAGCGAGGGGAGCTCCACAGCGAGAGCTCGGAGTCTCGGACAGCATGGCACCCGT
 GGGTGCCTCCCGCATCACAGCCAAGTGGTGGGGAAGCAAGAGGATCGACTATGCCCTGTACTGCCCTGAT
 GTCTCACGGCTTCCCCACCGTGGCCCTGCCACCTTCCAGCCAGTACTGGGAGTCCACAGACG
 TGGTGGCCTTATCCTGAGACAGGTAATGCGCTATGAGAGCGTGAACATCAAGGAAAGCGCCCGCTGGA
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 AATGTCACGGCTAATCACCGGGCAATGATGTGATTGCTGCTGAAGATGGCCCCAGGTCCTGGTGGGGC
 GGTTATGTACGGGCCCTCGACATGGTGGCTCTGACTGGAGAGAAGGTGGACATCCTAGTAATGGCAGA
 GCCATCCTCAGGCCGCTGGGTACACCTGGACACAGAGATCACCACAGCAGTGGTTCGCATCACATACAAT
 GTGCCCGGCCCGCGCCTGGGGTGGTGTCTATCCTGTGAAGATGGTCGTAGGGGGCAGCAGACCT
 GTGCCATGAGCTACCTCACGGTGTGGCCAGGGCATGGAGTGTGTAGTGTTCAGCATTGATGGGTCCTT
 CGCGCCAGCGTGTCTATCATGGGAAGCGACCCAAAGTCCGGCCGGTGCAGTGGATGTTGTCGGCAC
 TGGCAGGACTTGGGCTACATGATCCTTTACATCACGGGACGGCCGACATGCAGAAGCAGCGGGTGGTGT
 CGTGGCTGTCCAGCACAACTTCCACAGGGCATGATCTTCTTCCGATGGGCTGGTGCATGACCCGCT
 GCGGCAGAAGGCCATCTTCTGCGCAACCTCATGCAGGAGTGTTCATCAAAATCAGTGCAGGCTATGGC
 TCCACGAAGGACATCTGTCTACAGCGTGTGGGCTGCCTGCCTCCAGATCTTATTGTGGGCCGGC
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 CACGCGCAGCCAGAGTTCCTGCGGAAGCGCAACCACCTGCGCAGAACCATGTCAGTGCAGCAGCCCGACC
 CGCCCGCCGCAACCCAAAGCCGAGCGGGCCAGAGCCAGCCGAGTGGACAAAAGACCAGAGCGGCC
 GCTGCCGCGCTCAGCTGGGCGCTGGGCCCCCAAGTTCGAGTGGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219053 representing NM_031220
 Red=Cloning site Green=Tags(s)

MAKAGRAGPPPPGGGAPWHLRNVLSDSVESDDEFFDAREEMAEGKNAILIGMSQWNSNDLVEQIETMGK
 LDEHQEGGTAPCTSSILQEKQRELYRVSLRRQRFPAQGSIEIHEDSEEGCPQRSCKTHVLLLVLHGGNII
 DTGAGDPSCKAADIHTFSSVLEKVTRAHFPAALGHILIKFVPCPAICSEAFSLVSHLNPYSHDEGLSS
 QDHPVLAALPLLAISSPQYQDAVATVIERANQVYREFLKSDDGIGFSGQVCLIGDCVGGLLAFDAICYSA
 GPSGDSPASSSRKGSISSTQDTPVAVEEDCSLASSKRLSKSNIDISSGLEDEEPRPLPRKQSDSSTYDC
 EAITQHHAFLSSIHSSVLKDESETPAAGGPQLPEVSLGRFDFDVSDFFLFGSPLGLVLMARRRVLPLGLDG
 FQVRPACSVYVFFHCADPSASRLEPLLEPKFHLVPPVSVPRYQRFPLGDGQSLLLADALHTHSPLFLEG
 SSRDSPLLDAPASPPQASRFQRPGRMSEGSSHSESSSDSMAPVGASRITAKWWGSKRIDYALYCPD
 VLTAFPTVALPHLFHASYWESTDVVAFILRQVMRYESVNIKESARLDPAALSPANPREKWLKRKTQVKLR
 NVTANHRANDVIAAEDGPQVLVGRFMYGPLDMVALTGEKVDILVMAEPSSGRWVHLDTEITNSSGRITYN
 VPRRRLGVGVYVPMVVRGDQTCAMSYLTVLPRGMECVVFSIDGSFAASVSIMGSDPKVVRGADVVRH
 WQDLGYMILYITGRPDMQKQRVVSWLSQHNFPQGMIFFSIDLVDHPLRQKAIFLRNLMQECFIKISAAYG
 STKDISVYVSVLGLPASQIFIVGRPTKKYQTQCQFLSEGYAAHLAALEASHRSRPPKKNNSMILLKGSFGL
 HAQPEFLRKRNLRRRTMSVQQPDPAAANPKPERAQSQPESDKDHERPLPALSWARGPPKFEVSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8022_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



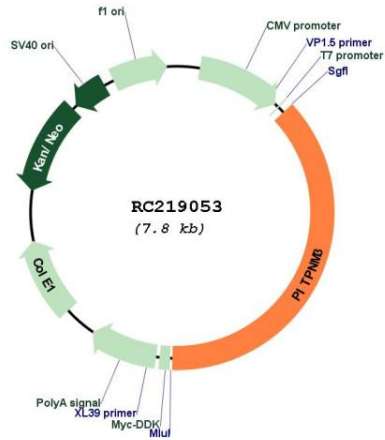
* The last codon before the Stop codon of the ORF

ACCN: NM_031220

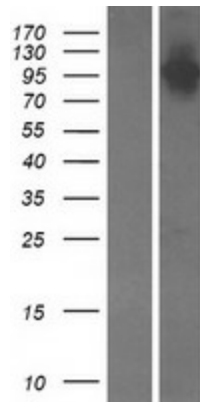
ORF Size: 2922 bp

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:	<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_031220.4
RefSeq Size:	3109 bp
RefSeq ORF:	2925 bp
Locus ID:	83394
UniProt ID:	Q9BZ71
Cytogenetics:	17p13.2-p13.1
Protein Families:	Druggable Genome
MW:	106.6 kDa
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]

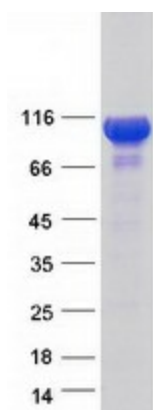
Product images:



Circular map for RC219053



Western blot validation of overexpression lysate (Cat# [LY410594]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219053 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PITPNM3 protein (Cat# [TP319053]). The protein was produced from HEK293T cells transfected with PITPNM3 cDNA clone (Cat# RC219053) using MegaTran 2.0 (Cat# [TT210002]).