

Product datasheet for **SC303545**

NIR2 (PITPNM1) (NM_004910) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NIR2 (PITPNM1) (NM_004910) Human Untagged Clone
Tag: Tag Free
Symbol: NIR2
Synonyms: DRES9; NIR2; PITPNM; Rd9; RDGB; RDGB1; RDGBA; RDGBA1
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004910 edited
 GCCCTTCAGGATGCTCATCAAGGAATACCACATTCTGCTGCCCATGAGCCTGGACGAGT
 CCAGGTGGCCAGCTCTACATGATCCAGAAAAAGAGCCGGGAGGAGTCTAGTGGTGAGGG
 CAGCGGCGTGGAGATCCTGGCCAACCGGCCCTACACGGATGGGCCGGGGCAGCGGGCA
 ATACACACACAAGGTGTACCACGTGGGCTCCCACATCCCAGGCTGGTTCCGGGCACTGCT
 GCCAAGGCTGCCCTGCAGGTAGAAGAGGAATCCTGGAATGCCTACCCTACACCCGAAC
 CCGGTACACCTGCCCTTTCGTGGAGAAATTCTCCATTGAAATTGAGACCTATTACCTGCC
 TGATGGGGGCGCAGCAAAACGTTTCAACCTGAGCGGGCCGAGAGGAGACAGCGCAT
 CCTGGACACCATCGACATCGTGCGGGATGCAGTGGCCCCAGGCGAGTACAAAGCAGAAGA
 GGACCCCGGCTTATCACTCGGTCAAGACGGGCGGAGGGCCACTGTCTGATGACTGGGC
 ACGGACGGCGGCACAGACGGGGCCCTTATGTGTGCCTATAAGCTGTGCAAGTTGAGTT
 CCGCTACTGGGGCATGCAAGCCAAGATCGAGCAGTTCATCCATGATGTAGGTCTGCGTCC
 GGTGATGCTGCGGGCCACCGCCAGGCCTGGTGTGCTGGCAGGATGAGTGGACAGAGCTGAG
 CATGGCTGACATCCGGGCACTGGAAGAGGAGACTGCTCGCATGCTGGCCAGCGCATGGC
 CAAGTGCAACACAGGCAGTGAGGGGTCCGAGGCCAGCCCCCGGAAACCGAGCACCGA
 GGCCCGGTCTGCGGCCAGCAACTGGCACCCCGATGGGCTGAGGCCCGCCAGGCCC
 AGATGCCTCCCCCGATGCCAGCTTTGGGAAGCAGTGGTCTCATCCTCCCGTTCTCCTA
 CTCATCCCAACATGGAGGGGCTGTGTCTCCCCAGAGCTTGTCTGAGTGGCGCATGCAGAA
 CATTGCCCGAGACTCTGAGAACAGCTCCGAGGAAGAGTTCTTTGATGCCACGAAGGCTT
 CTCGGACAGTGAGGAGGTCTTCCCAAGGAGATGACCAAGTGGAACTCCAATGACTTCAT
 TGATGCCTTTGCCTCCCCAGTGGAGGCAGAGGGAACGCCAGAGCCTGGAGCCGAGGCAGC
 TAAAGGCATTGAGGATGGGGCCCAAGCACCCAGGACTCAGAGGGCCTGGATGGAGCCGG
 GGAGCTGGGGGCTGAGGCATGCGCAGTCCACGCCCTTTCCTTATCCTGCACAGCGGCAA
 CATCCTGGACTCAGGCCCTGGAGACGCCAACTCCAAGCAGGCGGATGTGCAGACGCTGAG
 CTCGCTTCGAGGCCGTACCCGCATCCACTTCCCTGAGGCCTTGGGCCAGTGGCGCT
 GCGACTGGTGCCTGTCCACCCATCTGCGCCGCCCTATGCCCTGTCTCCAACCTGAG
 CCCTTACAGCCAGATGGGGACAGCCTGTCTCGTCCCAAGACCACATTCCTACTGGCTGC



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CCTGCCACTGCTGGCCACCTCATCCTCCCCTACCAGGGCGCCGTGGCCACCGTCATTGC
 CCGCACC AACAGGCCTACTCAGCCTTCTGCGCTCACCTGAGGGTGCCGGCTTCTGTGG
 GCAGGTCGCACTGATTGGAGATGGTGTGGTGGCATCCTGGGCTTTGATGCACTTGCCA
 CAGTGCTAACCGGGCACCGGGAGTCGGGGCAGCAGCCGCGTGGGAGCATGAACAATGA
 GCTGCTCTCTCCGGATTTGGCCAGTCGCGGACCCCTGGCAGATGGTGTGGAAGGCCT
 GGGTCGGGGCAGCCAGAACCCTCGGCCCTTGCCTCCCCAGCGCATCCCCAGCGACATGGC
 CAGTCTGAGCCGAGGGCTCTCAGAACAGCCTCAGGCAGCCCGCAACCACCTCCTC
 CTGGGAGCCCCGCGGGCAAGCACGGCCTTCTGCCACCCGCTGCCAGTTCCGAGGCACC
 TGACGGCCCCAGCAGCACTGCCCGCCTTGAATTCAAGGTCTCTGGCTTCTCCTCTTCGG
 CTCCCCACTGGGCTGGTGTGGCTCTGCGCAAACTGTGATGCCCGCCCTGGAGGCAGC
 CCAGATGCGCCAGCCTGTGAACAGATCTACAACCTTTCCACGCGGGCCGACCCCTGCGC
 CTCACGCCTCGAGCCCTGCTGGCCCCGAAGTTCCAGGCCATCGCCCACTGACCGTGCC
 CCGCTACCAGAAGTTCCCCTGGGAGATGGCTCATCCCTGCTGCTGGCCGACACTTGCA
 GACGCACTCCAGCCTTTCTGGAGGAGCTGGAGATGCTGGTGCCTCAACACCCACCTC
 TACTAGCGGTGCCTTCTGGAAGGGCAGTGAGTTGGCCACTGACCCCCGCGCCAGCCAGC
 CGCCCCAGCACCACTGAGGTGGTTAAGATCCTGGAGCGCTGGTGGGGGACCAAGCG
 GATCGACTACTCGCTGTACTGCCCGAGGCGCTCACCGCCTTTCCACCGTCAACGCTGCC
 CCACCTCTTCCACGCCAGCTACTGGGAGTCCGCGACGTGGTGGCGTTTCTCCTGCGCCA
 GGTGATCGAGAAGGAGCGGCCACAGCTGGCGGAATGCGAGGAGCCGTCCATCTACAGCCC
 GGCCTTCCCAGGGAGAAGTGGCAGCGAAAACGCACGCAGGTCAAGATCCGGAACGTAC
 TTCCAACCACCGGGCAGCGACACGGTGGTGTGCGAGGGCCGCCCCAGGTGCTAAGCGG
 GCGCTTATGTACGGGCCCTGGACGTCGTGCTGCTACTGGAGAGAAGTGGATGTCTA
 CATCATGACGACGCCGCTGTGCGGCAAGTGGATCACTTTGGCACCGAAGTCAACCAATG
 CTCGGGGCGCCTACCTTCCCAGTTCCCCAGAACGCGCGCTGGGCATTGGTGTCTACCC
 CGTGCGCATGGTGGTTCAGGGGCGACCACCTATGCCAATGCTGCCTGACTGTGGTGGC
 CCGCGGCACGGAGGCTGTGGTCTTACGATCGACGGCTCCTTACCGCCAGCGTCTCCAT
 CATGGGCAGCGACCCCAAGGTGCGAGCTGGCGCCGTGGACGTGGTTCAGGCACTGGCAGGA
 CTCCGGCTACCTGATCGTGTATGTCACAGGCGGGCCGGATATGCAGAAGCACCGCGTGGT
 GGCATGGCTGTCGACGACAACCTCCCCACGGCGTCTCTCCTTCTGCGACGGCCTCAC
 CCACGACCCACTACGCCAGAAGGCAATGTTTCTGCAGAGCCTGGTGCAGGAGGTAGA
 AACTGAACATCGTGGCGGTTATGGGTCTCCAAAGATGTGGTGTATACGCGGCGCTGGG
 GCTGTCCCCGAGCCAGACCTACATCGTGGGCGTGGCGTGGGAAGCTACAGGCGCAGTG
 CCA GTTCTGTGAGACGGCTATGTGGCCACCTGGGCCAGCTGGAAGCGGGCTCGCACTCG
 CA TGCCCTCTCGGGACCCCCGAGAGCTGCCTTGGCAAGAGCAGCTATGGTGTGGCTGCCC
 CGTGGACTTCTGCGCAACAGAGCCAGCTGCTTTCGCTCGAGGGGCCCCAGCCAGCGGGA
 GCGTGAGGGCCCCGGAAACACCACCCACCCTGGCACGGGGCAAAGCACGGAGCATCAG
 CCTGAAGCTGGACAGCGAGGAGTGGAGCCACACCAGCTGGACCTGGGTTATTTATTGA
 CACACCAAGGGGCCGAGGGGCTGCGTGTGGGAGGCTGGGACCCAGACTTTTGGCCCC
 AGCGCTGGCCCCCAGCCCCACACCCTATATCTCCGTGTCTCCTCGGTGTTACTTCCC
 TTTTCATATGAGGGGACCCAGCGCCGGGGGAGGAGGAGGGCGTGGGCATGGGCGCAGAG
 GCTTTTCCAGTGTGTATAAATCCATGAAAATAAACGCCACCTGCACCCCAAAAAAAAAA
 AAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004910 unedited
 CAAATCCCCGCCCGTTGCCCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
 CAGAGCTCATTTAGGTGACACTATAGAATACAAGTACTTGTCTTTTTGCAGCGGCCGC
 GAATTCGCCCTTCAGGATGCTCATCAAGGAATACCACATTCTGCTGCCCATGAGCCTGGA
 CGAGTACCAGGTGGCCAGCTCTACATGATCCAGAAAAAGAGCCGGGAGGAGTCTAGTGG
 TGAGGGCAGCGGCGTGGAGATCCTGGCCAACCGGCCCTACACGGATGGGCCCGGGGCAG
 CGGGCAATACACACACAAGGTGTACCAGTGGGCTCCACATCCCAGGCTGGTTCGGGGC
 ACTGCTGCCCAAGGCTGCCCTGCAGGTAGAAGAGGAATCCTGGAATGCCTACCCCTACAC
 CCGAACCCGGTACACCTGCCCTTTCGTGGAGAAATTCTCCATTGAAATTGAGACCTATTA
 CCTGCCTGATGGGGGGCAGCAGCCAAACGCTCTTCAACCTGAGCGGGGCGAGAGGAGACA
 GCGCATCTGGACACCATCGACATCGTGCGGGATGCAAGTGGCCCCAGGCGAGTACAAAGC
 AGAAGAGGACCCCGGCTTTATCACTCGGTCAAGACGGGCCGAGGGCCACTGTCTGATGA
 CTGGGCACGGACGGCGCACAGACGGGGCCCCCTATGTGTGCCTATAAGCTGTGCAAAGT
 TGAGTTCCGCTACTGGGGCATGCAAGCCAAATCGACCAGTTCATCCATGATGTAGGTCT
 GCCTCGGGTGATGCTGCGGGCCACCGCAAGCCCGGTGCTTGACGATGAATGGACAGAC
 CTGACCATGGCTTGACATCCGGCCCTGGAAAAAGAACTGGTTCGATGCCGGGCCAAC
 GCAAGGGCCAC

3' Read Nucleotide Sequence:

>Forward primer walk for NM_004910 unedited
 AGTCGTCTCTCTCTGCGACGGCCTCACCCACAACCCATACGCCAAAAGCAATGTTTCT
 GCAGAGCCTGGTGCAGGAGGTAGAACTGAACATCGTGGCCGGTTATGGGTCTCCCAAAGA
 TGTGGCTGTATACGCGCGCTGGGGCTGTCCCCGAGCCAGACCTACATCGTGGCCGTGC
 CGTGGGAAGCTACAGGCGCAGTGCCAGTTCCTGTGACAGGGCTATGTGGCCACCTGGG
 CCAGCTGGAAGCGGGCTCGCACTCGCATGCCTCCTCGGGACCCCGAGAGCTGCCTTGGG
 CAAGAGCAGCTATGGTGTGGCTGCCCCGTGGACTTCTGCGCAAACAGAGCCAGCTGCT
 TCGCTCGAGGGGCCCCAGCCAGGCGGAGCGTGAGGGCCCGGGAACACCACCCACCACCT
 GGCACGGGGCAAAGCACGGAGCATCAGCCTGAAGCTGGACAGCGAGGAGTGAGGCCACA
 CCAGCCTGGACCTGNGTTATTTATTGACACACCCAAGGGGCCCGAGGGGCTGCGTGTGGG
 AAGCTGGGGACCCAACTTTTGGCCCCAGCGCTGGCCCCCAGCCCCACACCCTATATC
 TCCGTGTGCTACTCGGTGTTACTTCCCTTTCTAATAAGGGACCCAGCGCCCGGGGAAGG
 AAGAAGAAAAAAAAAATAAAAAAAAAAGCTATAAAAGAGAGAAAAAAAAAAGAAAAAAAA
 AAACAGATAAAGCTGCAAAAGAAAAAAAAAGGAAAGAAAAAAAAAGAGAGAAAGAAAAAGGA
 GAAAGGAGAAAAAGAGGTAAAAAGAGAAGAGGAGTAAAAAAAAAGAGAGAGAAGGAAAA
 GGAATGAAAAAGAAAGAAAGCAGACAAAAGCAAGAAGANAAAAAGAAAGAGGAAAA
 AATAAAAGAAAAAGAAAG

Restriction Sites:

Please inquire

ACCN:

NM_004910

Insert Size:

4000 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>There is 2 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the sub of 2 aa.</p>
Components:	<p>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).</p>
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:	<u>NM_004910.1, NP_004901.1</u>
RefSeq Size:	4211 bp
RefSeq ORF:	3735 bp
Locus ID:	9600
UniProt ID:	<u>O00562</u>
Cytogenetics:	11q13.2
Protein Families:	Druggable Genome
Gene Summary:	<p>PITPNM1 belongs to a family of membrane-associated phosphatidylinositol transfer domain-containing proteins that share homology with the Drosophila retinal degeneration B (rdgB) protein (Ocaka et al., 2005 [PubMed 15627748]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>