

Product datasheet for **RC230100**

NIPAL4 (NM_001172292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NIPAL4
Synonyms:	ARCI6; ICHTHYIN; ICHYN; SLC57A6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC230100 representing NM_001172292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGGGTGACTCCTCCCGGGGACTCTCCACTCTGGGACGCGTCACTCTCCCCACCCCTGGGTCCGG
 ACCCCGGCGGCTTCTCGCGCGGAGCCACGCGGGGACAAGTCGCGGCCACCTGCTCCGGAGCTGGGGAG
 CCCGGGCGCGTCCGCCCGCGCGTTCGTTCTGTGCCCCGGGCCCCATGGAGCTGCGGGTACGAAACACC
 AGCTGCGAGAACGGTTCCTGCTCCACCTCTACTGCTCCTCCCAAGAAGTCTGTGCCAGATTGTCAATG
 ACCTCAGCCCTGAGGTGCCAGCAATGCCACCTTTCACAGCTGGCAGGAAGAATCAGGCAGAACTATGG
 CTTCTACATCGGCCTGGCCTGGCATTCTGTCTAGCTTCTCATCGGCAGCAGCGTCATCCTCAAGAAG
 AAAGGCCTCTTGCAGCTCGTGCCACGGGAGCCACTCGAGCTGTGGCTGCTGGAGAAGTTGCCAACTTTG
 GAGCCTACGCAATTCACCTGCAACAGTCGTACGCTCTGGGAGCGTGAGTGTCTCATAAGTGCCAT
 CCTCTCCTCATATTTCTGAGGGAGAGTCTGAACCTGCTGGGAAGCTGGGCTGTGTATCTGTGTGCC
 GGAAGCACAGTGATGGTGATACATGCTCCTGAGGAAGAGAAGGTCACTACCATCATGGAGATGGCTTCCA
 AGATGAAAGACACAGGGTTTCATCGTGTTCGTTCTGCTGCTGTGTCATGCCTCATCCTCATCTTTGT
 CATTGCCCCACGTACGGGCAAGGAATATCCTCATCTACATCATCTGCTCTGTATCGGGGCTTC
 TCTGTGGCTGCTGCAAGGGGCTGGCATCACCATCAAGAACTTCTCCAGGGGCTGCCAGTTGTCCGGC
 ACCCGCTCCCTACATCCTGTCCCTCATCCTGGCACTGTCCCTCAGCACTCAGGTCAACTTCTCAACAG
 AGCACTGGACATTTTCAACACTTCCCTGGTGTCCCATCTACTACGTGTTCTTACCACGGTGGTCTGT
 ACCTCGTCCATCATCCTCTTCAAGGAGTGGTACAGCATGTCTGCTGTGGACATTGCAGGCACCTCTCGG
 GCTTTGTACCATCATCTTGGCGTGTTCATGCTGCATGCTTCAAAGACCTGGACATCAGCTGCGCCAG
 CTTGCCCCACATGCACAAAACCCACCCCTTCTCCCGCCCGGAACCACTGTTATTAGACTGGAAGAC
 AAGAAGCTCTTGTGGACAATATAGAACTTGCCAGCACCTCATCACCAGAAGAGAAACCCAAAGTATTTA
 TAATCCATTCC

AGCGGACCGACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230100 representing NM_001172292
 Red=Cloning site Green=Tags(s)

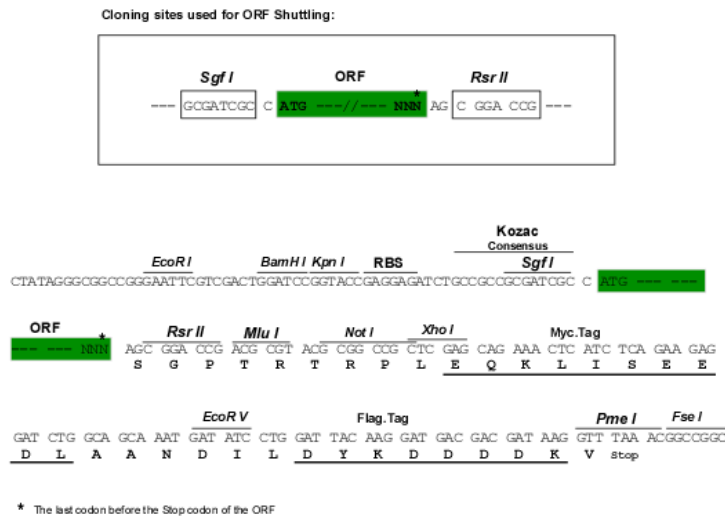
MPGDSSPGTLPLWDASLSPPLGPDGPGFSRASHAGDKSRPPAPELGSPGAVRPRVGSAPGPMELRVSNT
 SCENGSLHLHYCSSQEVLCQIVNDLSPEVPSNATFHSWQERIRQNYGFYIGLGLAFLSSFLIGSSVILKK
 KGLLRVLATGATRAVAAGEVANFGAYAFAPATVVTPLGALSVLISAILSSYFLRESLNLGLKGCVICVA
 GSTVMVIHAPEEEKVTTIMEMASKMKGDTGIVFAVLLLVSLILIFVIAPRYGQRNIIYIIICSVIGAF
 SVAAYKGLGITIKNFFQGLPVVRHPLPYILSLILALSLSTQVNFNLRALDIFNTSLVFPIYYVFFTTVVV
 TSSIIILFKEWYSMSAVDIAGTSLSGFVTIILGVFMLHAFKDLDISCASLPHMHKNPPSPAPEPTVIRLED
 KNVLVDNIELASTSSPEEKPKVFIHS

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8060_f03.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001172292

ORF Size: 1341 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001172292.1](#), [NP_001165763.1](#)

RefSeq ORF: 1344 bp

Locus ID: 348938

UniProt ID: [Q0D2K0](#)

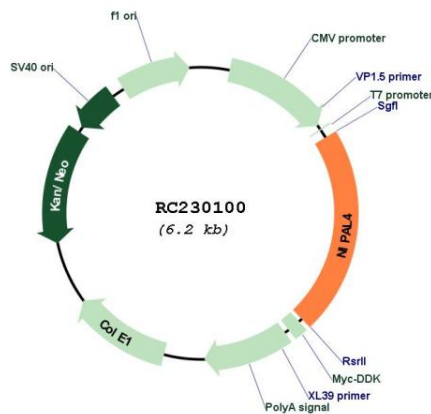
Cytogenetics: 5q33.3

Protein Families: Transmembrane

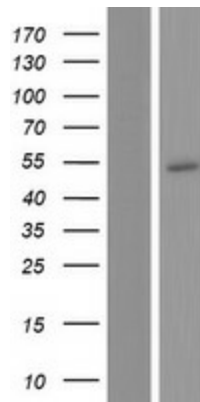
MW: 48.4 kDa

Gene Summary: This gene likely encodes a membrane receptor. Mutations in this gene have been associated with autosomal recessive congenital ichthyosis. [provided by RefSeq, Feb 2010]

Product images:



Circular map for RC230100



Western blot validation of overexpression lysate (Cat# [LY433100]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230100 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).