

Product datasheet for MC224724

Nisch (NM_022656) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nisch (NM_022656) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nisch
Synonyms: 1200007D05Rik; 3202002H23Rik; AW494485; I-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224724 representing NM_022656
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGCTGCGACACTCAGCTTCGGCCCTGAGCGGGAGGCCGAGCCTGCCAAGGAGGCGCGTCTGG
 GTTCTGAGCTCGTGGACACGTACACGGTTTATGTCATCCAGTTACCGATGGCAACCATGAGTGGACGAT
 CAAACACCGTTACAGTGATTTTCATGACCTACATGAAAAGCTTGTGGCAGAGAGAAAAATTGACAAATCT
 CTACTCCACCCAAAAAGATAATTGGGAAGAACTCGAGAAGCTTGGTAGAGAAGAGGGAGAGAGACCTGG
 AGGTGTACCTCCAGACGCTCCTCACAACCTTCCCTGATGTGGCTCCCAGAGTTCTGGCCACTTCTGTGCA
 TTTTACCTCTATGAAGTAAATGGTGTCACTGCAGCACTGGCTGAAGAACTCTTTGAAAAAGGAGAGCAA
 CTTCTAGGAGCCGGTGGAGTCTTTGCCATCAGGCCCTTGACGCTCTATGCTATCAGAACAGCTGCAAC
 AGGAAAGCCTACTTGTGCCAGTGGTGTGCAAGACTGACCTTGGACACATCCTAGACTTACCTGTGCG
 CCTAAGTATCTTAAGTTTCAGGCACAGAAGGACCTTTGGGACCAGCAATATTAAGGAGCAGCTCTTG
 CCCTTTGATCTTCAATATTCAAGTCTCTCACCAGGTGGAGATAAGTCATTGTGATGCCAAGCATATCC
 GAGGGCTGGTCACTCCAAGCCACTTTAGCCACAATGAGTGTTAGATTCTCAGCAACCTCAATGAAGCA
 AGTGCTTGCTCCTGAAGCCTCAGAATTTGATGAGTGGGAGCCTGAAGGCACTGCTACCCTCGGAGGCCCT
 GTGACTGTATCATCCCAACATGGCAAGCACTGACTACTCTAGACCTGAGCCACAACAGCATCTGTGAGA
 TCGACGAATCTGTGAAACTGATCCCAAAGATAGAGTACCTGGACCTGAGTCAAAATGGACTGCGAGTTGT
 GGATAACCTGCAGCACCTATAAACCTCGTGCACCTTGACCTGTCTACAACAAGCTCTCCTCCCTGGAA
 GGCGTGCACACTAACTGGGCAATGTCAAACCCTAAACCTGGCAGGCAACTTCTTAGAGAGTCTGAGCG
 GTCTGCACAACTCTACTCCTTGGTTAATGTGGACCTACGAGACAACCGATTGAGCAGTTGGATGAGGT
 CAAGAGCATTGGCAGCCTGCCATGTCTGGAGCGTTTGACCTTGTGAACAACCTTTGAGCATCATCCCT
 GACTACCGGACCAAGGTGCTTTCCAGTTTGGAGAACGAGCCTCTGAGATTTGTCTAGATGATGTGCAAA
 CCACAGAGAAAGAGCTGGACACTGTGGAAGTGTGAAGGCAATTCAGAAAAGCCAAAGATGTCAAGTCCAA
 ACTGAGCAACACAGAAAAGAGGCTGGTGGAGACTTCCGGCTCCCGCCTGCACCTTGCATCAGACCCGGC
 GGCTCCCTCCTGCAGCTCCCGCCTCAGCTCCCTGCCTCAGCCGATCCTCTCCAACCAAGGTATCATGT



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TTGTACAGGAAGAGGCCCTGGCCAGCAGCCTCTCATCCACGGATAGTCTGCCACCCGAGGACCACCGGCC
 CATTGCCCCGAGCCTGCTCTGACTCCTTGAATCTATCCCTGCAGGACAGGTGGCCTCTGATGATCTGAGG
 GATGTGCCAGGAGCTGTTGGCGCGTGAGCCAGATCATGCAGAGCCAGAGGTTCAAGTGGTGCCTGGT
 CCGGCCAGATCATCTTCCCTGCCCTTCACTTGCATTGGCTACACAGCCACCAACCAGGACTTATCCAGCG
 CCTCAGCACACTGATCCGCCAGGCCATTGAACGGCAACTCCCTGCCTGGATTGAGGCTGCCAACCAGCGC
 GAGGAAGCCCATGGTGAGCAGGGCGAGGAGGAAGAAGAGGAAGAGGAAGAGGAGGATGTTGCTGAGAACC
 GCTACTTTGAAATGGGACCCCCAGACGCGAGAGGAAGAGGAGGGGAGTGGCCAGGGAGAAGAGGATGAGGA
 AGACGAGGACGAGGAGGGCGAGGAGGAGCGCCTGGCTCTGGAGTGGGCCCTGGGCCCGATGAGGACTTC
 CTGCTGGAGCACATCCGCATCCTCAAGGTGCTCTGGTCTTCTGATCCACGTGCAAGGCAGCATCCGCC
 AGTTTCGCTGCCTGCCTTGTGCTCACTGACTTCGGCATCGCAGTCTTTGAGATCCCACACCAAGAGTCAAG
 AGGCAGCAGCCAGCACATCCTCTCATCCCTGCGTTTTGTCTTCTGCTTCCACATGGCGACTCACGGAG
 TTTGGCTTCTCATGCCGAGCTGTGTCTGGTCTCAAGGTGCGGCACAGTGAGAACACGCTCTTCATCA
 TCTCGGATGCTGCCAACTTACACGAGTTCATGCTGATCTACGCTCCTGCTTTCACCCGACGACATGGC
 CATGCTGTGCAGCCCATCCTCTACGGCAGCCACACCACCCTGCAGGAGTCTTTCGCCAGCTGCTCACC
 TTCTACAAGTGGCCGGGGCTCTCAGGAGCGCAGCCAGGGCTGCTTCCCTGTCTACCTGGTCTACAGTG
 ACAAGCGCATGGTCCAGACCCCTGCCGGGACTATTAGGCAATATCGAATGGGCCAGCTGCACGCTGTG
 CTGGCGGTGCGGCGCTCCTGCTGCGCGCCCTCGGAGGCCGTAAGTCCGCTGCCATCCCCTACTGGCTG
 CTGCTCACATCCCAGCATCTCAAGTCAATCAAGGCCGACTTCAACCCCATGCCAATCGAGGCACCCACA
 ACTGCCGCAACCGCAACAGCTTCAAGCTTAGCCGCGTCCCGCTCTCTACCGTGTCTAGACCCCACTCG
 CAGCTGCACCCAGCCACGGGGTGCCTTCGCTGATGGCCATGTGCTCGAGCTGCTCGTGGGCTACCGCTTC
 GTTACCGCCATCTTTGTGCTGCCCCACGAGAAATCCACTTCTGCGAGTCTACAATCAGTACGCGCCT
 CACTGCAGGACCTGAAGACTGTGGTCACTCCAAGAATCCTTCAAGTCAAGCAAGAAATCAGCTGCCAA
 GAGCAGGGCCAGTGTGAGCAGCGGCTACAGGAGACCCAGCAGAGCTCCGGCTCCAGTGCAGTCCCA
 CCAACAGCTTCAAGTCCAGCCCGCAGAGGCCCTTGGCTCCAGATCTGGCTCCTGTACAGGCCCCAGGAG
 AGGACCGAGGTCTAAGTTCAGCAGAGGCTCCAGCCGACAGAGGCTCCAGCCGACGAGAGGCTCCAGC
 CGCAGCAGAGGCTCCAGCCGACGAGAGGCTCCAGCCGACGAGAGGCTCCAGCCGACGAGAGGCTCCG
 GCCCAGCAGAGGCTCCAGCCGACGAGAGGCTCCGGCCGACGAGAGGCTCCAGCTGCAGCAGAGGCTC
 CAGCCGACGAGAGGCTCCAGCTTCCAGCAGAGGCTCCAGCTCCAAACCAGGCTCCTGCTCCAGCAAGGGG
 TCCCGCTCCAGCAAGGGGTCCCGCTCCAGCAGGGGGTCCCGCTCCAGCAGAGGCCCTGGCACAAGCAGAA
 GTCCCTGCCAGTACCAAGTGAGCGCCTAATCCAGTCCACATCTGAAGAGAATCAGATCCCTTCTCACT
 TGCCAGTATGCCATCACTCCAGCACATTGCCCGTCTTCGGGGGAGGCCATCATTGACCTTTCCACAA
 CAGCATTGCTGAGGTTGAAAATGAGGAGCTGAGGCACCTCCTGTGGTCTCAGTGGTGTCTACAGACC
 CCGGGGCTAGAAGTGACCGCCTGTGTGCTCTCTAGCAAGGCTGTGTACTTCATACTGCATGATGGTC
 TCCGCCGCTACTTCTCTGAACCACTGCAGGATTTCTGGCACCAGAAAAACCCGACTATAACAACAGTCC
 TTTCCAGTCTCTCAGTCTTTGTGTTGAAACTCAGTGACCTGCAGTCAACGTCCGGCTTTTCGAC
 CAGTACTTCCGGCTGACGGGCTCCTCCCGACGCGAGTGGTCACTGCTTGACTCGCGACAGTACCTGA
 CGCACTGCTTCTCCAGCATCTGATGCTGTGCTGTCTCCCTGGAGCGCACACCCTCGCTGAGCCTGT
 TGACAAGGACTTCTACTCAGAATTTGGGACAAGAATACAGGGAAAATGGAGAATATGAGCTGATCCAT
 TCCAGCCGCTCAAGTTCACCTACCCAGTGAGGAAGAGGTTGGGGACCTGACCTATATTGTCGCACAGA
 AGATGGCTGATCCTGCAAAGAATCCAGCCCTCAGCATTTACTGTACATCCAGGCCCTCCAGGTGGTCAC
 ACCACACCTTGGGCGGGGAGGGGCCACTGCGCCCTAAGACGCTGCTCCTGACCAGCGCCGAGATCTTC
 CTCCTGGATGAGGACTACATCCACTATCCATTGCCTGAATTTGCCAAAGAGCCACCAGAGGGACAGAT
 ACCGGCTAGACGATGGCCGCCGGTCCGGGATTTGGACCGGGTGTCTATGGGCTACTATCCCTACCCACA
 GGCCCTCACTCTTGTGTTTTGATGACACACAGGGTACGACCTCATGGGAGTGTACCCTGGACCACTTT
 GGGGAGATGCCAGGTGGTCTGGCAGGGTGGCCAGGGCCGAGAGGTACAGTGGCAGGTGTTTGTCCCA
 GTGCCGAGAGCCGAGAAAAGCTCATCTCACTGCTCGCACGACAGTGGGAAGCTCTTTGTGGCAGGGAGCT
 GCCTGTGGAGCTCACTGGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

| | |
|-------------------------------|---|
| ACCN: | NM_022656 |
| Insert Size: | 4782 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_022656.2 , NP_073147.2 |
| RefSeq Size: | 5606 bp |
| RefSeq ORF: | 4782 bp |
| Locus ID: | 64652 |
| UniProt ID: | Q80TM9 |
| Cytogenetics: | 14 B |
| Gene Summary: | <p>Acts either as the functional imidazoline-1 receptor (I1R) candidate or as a membrane-associated mediator of the I1R signaling. Binds numerous imidazoline ligands that induces initiation of cell-signaling cascades triggering to cell survival, growth and migration. Its activation by the agonist rilmenidine induces an increase in phosphorylation of mitogen-activated protein kinases MAPK1 and MAPK3 in rostral ventrolateral medulla (RVLM) neurons that exhibited rilmenidine-evoked hypotension (By similarity). Blocking its activation with efaroxan abolished rilmenidine-induced mitogen-activated protein kinase phosphorylation in RVLM neurons (By similarity). Acts as a modulator of Rac-regulated signal transduction pathways. Suppresses Rac1-stimulated cell migration by interacting with PAK1 and inhibiting its kinase activity. Also blocks Pak-independent Rac signaling by interacting with RAC1 and inhibiting Rac1-stimulated NF-kB response element and cyclin D1 promoter activation. Inhibits also LIMK1 kinase activity by reducing LIMK1 'Tyr-508' phosphorylation. Inhibits Rac-induced cell migration and invasion in breast and colon epithelial cells. Inhibits lamellipodia formation, when overexpressed. Plays a role in protection against apoptosis (By similarity). Involved in association with IRS4 in the enhancement of insulin activation of MAPK1 and MAPK3 (By similarity). When overexpressed, induces a redistribution of cell surface ITGA5 integrin to intracellular endosomal structures (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p> |

