

Product datasheet for **SC108496**

NISCH (NM_007184) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NISCH (NM_007184) Human Untagged Clone
Tag: Tag Free
Symbol: NISCH
Synonyms: hIRAS; I-1; IR1; IRAS
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_007184 edited
 GAATTCGGCACGAGGGTGGCGGGAGACCCGAACATGGCGACCGCGCACCTTCGGGC
 CCGAGCGGGAAGCCGAGCCGGCCAAGGAAGCGCGCTCGTGGGCTCGGAGCTTGTGGACA
 CTTATACGGTTTACATCATCCAGGTCAGTATGGCAGCCATGAGTGGACAGTAAAGCACC
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 ACCTGCTTCCGCCAAAAAGATAATTGGGAAAACTCAAGAAGCTTGGTGGAGAAGAGGG
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 CAGAGAAGAAGGGTGGTGAAGACTCCCGGCTCTCAGCTGCCCCCTGCATCAGACCCAGCA
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AAGGAATCATGTTTCGTTTCAGGAGGAGGCCCTGGCCAGCAGCCTCTCGTCCACTGACAGTC
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 CCGGACAGGCAGCTTCCGATGATTTAAGGGACGTGCCAGGAGCTGTTGGTGGTGAAGCC
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 AGTGGGAGGCCCTGTGTGGCCGTGAGCTGCCTGTGAGCTCACCGGCTAGCCAGGCCAC
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 TGCTGTGTTGTGGGACCGTTGTTAACACGTGACACTGTGGGTCTGACTTTCTTTCTA
 CACGTCCTTTCTGAAGTGTGAGTCCAGTCTTTGTTGCTGTTGCTGTTGCTGTTGCTG
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 CCACCCCATATTGTTCTCAAAGTGGAGTCTCCCCTGATCCAGACAAGTGGGAGAGCCC
 GTGGGCGCAGGGACCTGGAGCTGCCAGCACCAAGCGTGATTCCCTGCTGCCTGTATTTT
 TATTCCAATAAAGCAGAGTTTGACACCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007184 unedited
 AATTTTCCCGCCCTTGGCCGTTTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
 CAGAGCTCATTTAGTGACACTATAGAATAACAAGCTACTTGTCTTTTTTGCAGCGGCCG
 GAATTCGGCAGGAGGTGGCGGCGAGACCCGAACATGGCGCCGCGCACCTTCGGGC
 CCGAGCGGGAAGCCGAGCCGCGCAAGGAAGCGCGCTCGTGGGCTCGGAGCTTGTGGACA
 CTTATACGGTTTACATCATCCAGGTCAGTATGGCAGCCATGAGTGGACAGTAAAGCACC
 GCTACAGCGACTTCCATGACCTGCATGAAAAGCTCGTTGCAGAGAGAAAGATTGATAAAA
 ACCTGCTTCCGCCAAAAAGATAATTGGGAAAACTCAAGAAGCTTGGTGGAGAAGAGGG
 AGAAGGATCTGGAGTCTACCTCCAGAAGCTCCTGGCTGCCTTCCCTGGCGTGACCCCA
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 ACCTTAAGGTTTCTGGCAGAGAAGGACCTTTTGGNGACCAGCACATTCAGGAGCAGCTCC
 TGCCGTTTCGACCTATCATATTCAAGTCCCTGCATCAGGTGGNAGATAGTCACTGTGATGC
 TAAGCACATCAGAGGGCTGGTCGCATCGAAGCCACCTTAGCACGCTGAGTGTCCCGCTCT
 CAGCACCTCGATGAGGAAGTCCNTGNTNCTGAGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007184 unedited
 NGGGGGTACCCTATGNNACCGCGCCGAANCTANGATCGAGTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTCGGGGTCAAACCTGCTTTATTGGAATAAAAAATACAG
 GCAGCAGGAATCACGCTTGGTGTGGCAGCTCCAGGTCCCCTGCCCCACGGGCTCTCC
 ACTTGTCTGGATCAGGGGAAACCTCCACTTTGAAAAACAATATGGGGTGGGAGCTTCAA
 TGTGCATTCTGCTACCAGCCTCAGGATTAGCAGCAAGATGCCAACAGCAACAGCAACAGC
 AACAGCAACAGCAACAAAGGACTGGACTCGACACTTACAGGAAAGGACGTGTA
 AGTCAAGACCCAGTGTACAGTGTAAACAACGGTCCCACAACAGCAACACGAAACTGGT
 GTGCACGGCTGTACCACCTGGGGGAGGCTGAAAGCACACCGACAGCCCTGAGGGGCCCG
 CATTCTTACTCCCACATGAGAAAAGAAATTAACACAACCCCCCTGTTACATTTTCT
 GCGAGGACAGTCAAATTAAGGTACCCAAGGGGGATAAAAACATTTTATAGAAAAA
 ACCTGGTGCCTGCCCGAAGGCCTTAGGCTGGACACCAAGGCTGGCTTTGGCCGGGC
 TAACCCGGGAAACCTGAAAGGGAGTTCACGGGCCCGGGGCCCGGGGAGCCCTGGGGAAGCC
 CACCAGGAGAAAGAGCTTTTCTTTGGCTTTAAACCTGGGGACAAAAACCTTGCCACT
 GGGGATTAACCGCCCTGGGGTGTCTTTACCGGGGCACCATGGGCCTCTCCCAAAAG
 GGGCCAGGTGAAAACCTGCCCGAAAGACAATAACCTTCCCTC

Restriction Sites:

NotI-NotI

ACCN:

NM_007184

Insert Size:

5500 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_007184.2 , NP_009115.2
RefSeq Size:	5139 bp
RefSeq ORF:	4515 bp
Locus ID:	11188
UniProt ID:	Q9Y2I1
Cytogenetics:	3p21.1
Domains:	LRR, PX, LRR_SD22
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a nonadrenergic imidazoline-1 receptor protein that localizes to the cytosol and anchors to the inner layer of the plasma membrane. The orthologous mouse protein has been shown to influence cytoskeletal organization and cell migration by binding to alpha-5-beta-1 integrin. In humans, this protein has been shown to bind to the adapter insulin receptor substrate 4 (IRS4) to mediate translocation of alpha-5 integrin from the cell membrane to endosomes. Expression of this protein was reduced in human breast cancers while its overexpression reduced tumor growth and metastasis; possibly by limiting the expression of alpha-5 integrin. In human cardiac tissue, this gene was found to affect cell growth and death while in neural tissue it affected neuronal growth and differentiation. Alternative splicing results in multiple transcript variants encoding different isoforms. Some isoforms lack the expected C-terminal domains of a functional imidazoline receptor. [provided by RefSeq, Jan 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1; also known as IRAS-M).</p>