

## Product datasheet for **SC336875**

### NISCH (NM\_001276293) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NISCH (NM_001276293) Human Untagged Clone
Tag:	Tag Free
Symbol:	NISCH
Synonyms:	hIRAS; I-1; IR1; IRAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



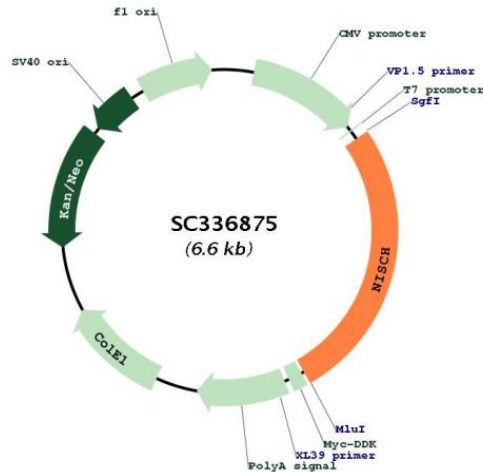
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**Fully Sequenced ORF:** >SC336875 representing NM\_001276293.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGACCGCGCACCTTCGGGCCGAGCGGGAAGCCGAGCCGGCCAAGGAAGCGCGCGTCGTGGGC
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CTTGGTGAGGACTCCAATTGCTCTGA
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001276293

**Insert Size:** 1752 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:**

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\\_001276293.1](#)

**RefSeq Size:** 3289 bp

**RefSeq ORF:** 1752 bp

**Locus ID:** 11188

**UniProt ID:** [Q9Y2I1](#)

**Cytogenetics:** 3p21.1

**Protein Families:** Druggable Genome

**MW:** 64.1 kDa

**Gene Summary:**

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]

Transcript Variant: This variant (2) has its transcription extend past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2 (also known as IRAS-L) which is shorter and has a distinct C-terminus, compared to isoform 1. This isoform lacks multiple domains which are believed to be required by functional imidazoline receptors. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.