

## Product datasheet for **RG238981**

### **NISCH (NM\_001276293) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NISCH (NM_001276293) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NISCH
Synonyms:	hIRAS; I-1; IR1; IRAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238981 representing NM\_001276293.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGACCGCGCACCTTCGGGCCGAGCGGGAAGCCGAGCCGGCCAAGGAAGCGCGCGTCGTGGGC
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TGTCGCCTAAGTACCTAAGGTTTCTGGCACAGAAGGACCTTTTGGGACCAGCAACATTCAGGAGCAG
CTCCTGCCGTTCCGACCTATCAATATTCAAGTCCCTGCATCAGGTGGAGATAAGTCACTGTGATGCTAAG
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CTTGTTGAGGACTCCAATTGCTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238981  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MATARTFGPEREAPEAKEARVVGSELVDYTYVYIIQVTDGSHEWTVKHRYSDFHDLHEKLVAERKIDKN
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QLLGAGEVFAIGPLQLYAVTEQLQQGKPTCASGDAKTDLGHILDFTCRLKYLKVSGETGPFGTSNIQEQ
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GPVTAIVIPTWQALTTLDLSHNSISEIDESVKLIPKIEFLDLSHNGLLVVDNLQHLVNLVHLDL SYNKLS
SLEGLHTKLGNIKTLNLAGNLLLESGLHKL VSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSLLNPL
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CIRPSSSPPTVAPASASLPQPILSNQG NRVCILLVPHSPA WAPWLGWGWGRGASTCFQQGQTQGGQC
LLQAGPRGGTHGRGAWPDASCLLGEDSLL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
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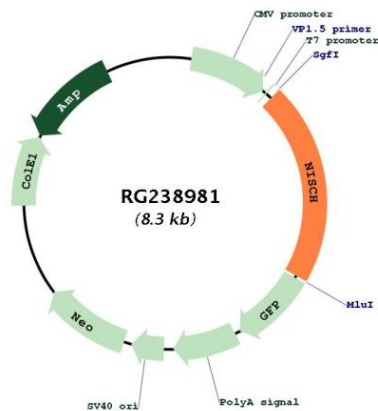
**Restriction Sites:**

SgfI-MluI



**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]

**Product images:**

Circular map for RG238981