

## Product datasheet for **RG212031**

### ISCU (NM\_014301) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ISCU (NM\_014301) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ISCU  
**Synonyms:** 2310020H20Rik; HML; hnifU; ISU2; NIFU; NIFUN  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212031 representing NM\_014301  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTCTCATTGACATGAGTGTAGACCTTTCTACTCAGGTTGTTGATCATTATGAAAATCCTAGAAAACG  
TGGGGTCCCTTGACAAGACATCTAAAAATGTTGGAAGTGGACTGGTGGGGCTCCAGCATGTGGTGACGT  
AATGAAATTACAGATTCAAGTGGATGAAAAGGGGAAGATTGTGGATGCTAGGTTTAAACATTTGGCTGT  
GGTCCGCAATTGCCTCCAGCTCATTAGCCACTGAATGGGTGAAAGGAAAGACGGTGGAGGAAGCCCTGA  
CTATCAAAAACACAGATATCGCCAAGGAGCTCTGCCTTCTCCCGTGAAACTGCACTGCTCCATGCTGGC  
TGAAGATGCAATCAAGGCCGCCCTGGCTGATTACAAATTGAAACAAGAACCACAAAAAGGAGAGGCAGAG  
AAGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG212031 representing NM\_014301  
Red=Cloning site Green=Tags(s)

MVLIDMSVDLSTQVVDHYENPRNVGSLDKTSKNVGTGLVGAPACGDVMKLIQVDEKGIIVDARFKTFGC  
GSAIASSSLATEWVKGTVEEALTIKNTDIAKELCLPPVKLHCSMLAEDAIIKAALADYKLIKQEPKKGAE  
KK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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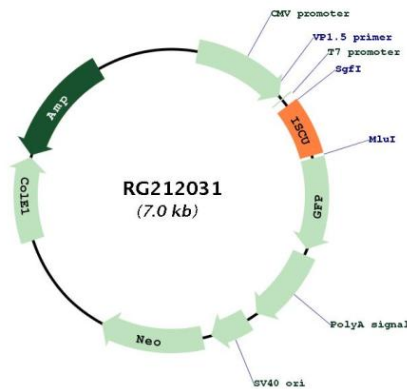


**Cytogenetics:** 12q23.3

**Domains:** NifU\_N

**Gene Summary:** This gene encodes a component of the iron-sulfur (Fe-S) cluster scaffold. Fe-S clusters are cofactors that play a role in the function of a diverse set of enzymes, including those that regulate metabolism, iron homeostasis, and oxidative stress response. Alternative splicing results in transcript variants encoding different protein isoforms that localize either to the cytosol or to the mitochondrion. Mutations in this gene have been found in patients with hereditary myopathy with lactic acidosis. A disease-associated mutation in an intron may activate a cryptic splice site, resulting in the production of a splice variant encoding a putatively non-functional protein. A pseudogene of this gene is present on chromosome 1. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for RG212031