

## Product datasheet for **MG210421**

### **Nsf (NM\_008740) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nsf (NM_008740) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nsf
Synonyms:	AI316878; AU020090; AU067812; SKD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210421 representing NM\_008740  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGGCCGACTATGCAAGCTGCGAGATGCCCTACTGATGAATTATCTTTAAGCAACTGTGCGGTTG  
 TGAAACGAAAAAGATTTCCAGTCTGGCCAGCATGTGATGGTGAGGACGTCCCCAATCACAAAGTACATATT  
 TACGCTGAGGACCCATCCGTGAGTGTCCAGGATGCATCGCGTTCAGCTTGCCTCAGCGAAAAATGGCT  
 GGACTTTCTATTGGACAGGACATAGAAGTTGCCTTGATTCGTTTGACAAAGCCAAGCAGTGCATCGGCA  
 CAATGACCATCGAGATCGACTTCTGCAGAAGAAGAACATCGACTCCAACCTTACGACACCGACAAGAT  
 GGCCGCCGAGTTCATCCAGCAGTTCAACAACCAGGCCTTCTCAGTGGGGCAGCAGCTTGTCTTTAGCTTC  
 AATGATAAGCTCTTTGGATTACTGGTGAAGGACATTGAAGCCATGGATCCAGCATCCTGAAGGGAGAGC  
 CTGCATCAGGCAAAGGCAGAAGATTGAGGTAGGCCTGGTTGTTGGAAACAGTCAAGTTGCATTTGAAAA  
 AGCAGAAAATTCGTCGCTCAATCTTATCGGCAAAGCTAAAACCAAGGAAAATCGCCAGTCCATCATCAAT  
 CCCGACTGGAACCTTTGAGAAAATGGGGATCGGCGGTCTGGATAAAGGAGTTCTCGGACATTTCCGAAGAG  
 CATTGCTTCTCGGGTGTTCACCCCGGAGATCGTGAACAGATGGGTTGCAAACATGTTAAAGGCATCCT  
 GTTATACGGACCCCTGGTTGTGGTAAAACCTCTTGGCTCGACAGATTGGCAAGATGCTGAATGCGAGA  
 GAGCCCAAGGTGGTCAATGGGCCAGAAATCCTTAAACAAGTATGTGGGAGAATCAGAGGCTAACATTCGTA  
 AACTCTTTGCTGATGCCGAAGAGGAGCAAAGGAGGCTTGGTGCTAACAGTGGCTTGACATCATCATCTT  
 TGATGAAATCGATGCCATCTGCAAGCAGAGAGGGAGCATGGCCGGCAGCACTGGAGTGCATGACACCGTG  
 GTCAACCAGCTGCTGTCCAAGATCGATGGCGTTGAGCAGCTGAACAACATCCTCGTTATCGGAATGACCA  
 ATAGACCAGATTTGATAGACGAAGCTCTCCTTCGACCCGGAAGACTGGAAGTTAAAATGGAGATAGGCTT  
 GCCAGATGAGAAGGGTCCGACTCCAGATCCTTCATATCCACACAGCAAGGATGAGAGGGCACCAGTTACTG  
 TCTGCAGATGTGGACATCAAGGAGCTGGCTGTGGAGACTAAGAATTTTCAGTGGCGCTGAGCTGGAGGGTC  
 TGGTGCAGCAGCGCAGTCCACAGCCATGAACAGACATATCAAGGCCAGCACCAAAGTAGAAGTAGACAT  
 GGAGAAGGCAGAGAGCCTGCAGGTGACAAGAGGGGACTTCTTGTTCCTGGAGAACGATATCAAACCA  
 GCATTTGGCACCAACCAAGAGGATTATGCAAGTTACATTATGAATGGGATCATCAAGTGGGGTGACCCCG  
 TGACCCGAGTCTAGATGACGGAGAGCTGCTGGTCCAGCAAACGAAAAACAGTACCAGGACACCCTCGT  
 TAGTGTCTCCTAGAAAGGCCTCCTCACAGCGGAAGACTGCCCTGGCTGCAAAGATTGCCGAGGAATCC  
 AACTTCCCCTTCAAGATCTGCTCACCTGATAAGATGATTGGCTTCTCCGAGACAGCCAAGTGCAGG  
 CCATGAAGAAGATCTTTGATGATGCTTACAAATCTCAGCTCAGCTGTGTGGTCTGGATGACATTGAGAG  
 GCTGCTCGATTATGTCCCATTTGGTCCCGGTTCTCCAACCTGGTATTGCAGGCTCTTCTTGTGTTACTG  
 AAAAAGGCGCCTCCTCAGGGCCGCAAGCTTCTTATCATCGGGACCACCAGCCGCAAAGATGCTCTGCAGG  
 AAATGGAGATGCTGAACGCCTTACGACCACCATCCACGTGCCAACATTGCCACAGGAGAGCAGCTGCT  
 GGAAGCTCTGGAGCTTTTGGGCAACTTCAAAGATAAGGAACGCACCACAATTGCTCAGCAAGTCAAAGGG  
 AAGAAAGTCTGGATAGGAATCAAGAAGTTACTAATGTTGATTGAGATGTCCCTGCAGATGGATCCTGAGT  
 ACCGTGTGAGGAAATCTTGGCCCTCATGAGAGAAGAAGGCGCTAGTCCCCTGGACTTTGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210421 representing NM\_008740  
 Red=Cloning site Green=Tags(s)

MAGRTMQAARCPDDELSLSNCAVVNEKDFQSGQHVMVRTSPNHKYIFTLRTHPSVVPGCIAFSLPQRKWA  
 GLSIGQDIEVALYSFDKAKQCIGTMTIEIDFLQKKNIDSNPYDTDKMAAEFIQQFNNQAF SVGQQLVFSF  
 NDKLFGLLVKDIEAMDPSILKGEFASGKRQKIEVGLVVGNSQVAFKAENSSLNLIGKAKTKENRQSIIN  
 PDWNFEKMGIGGLDKEFSDIFRRAFASRVFPPEIVEQMGCKHVKGILLYGPPGCGKTLLARQIGKMLNAR  
 EPKVVNGPEILNKYVGESEANIRKLFADAEQRRRLGANSGLHIIIFDEIDAICKQRGSMAGSTGVHDTV  
 VNQLLSKIDGVEQLNNILVIGMTNRPDLIDEALLRPGRLVMEIGLPDEKGRQLIHLIHTARMRGHQLL  
 SADVDIKELAVETKNFSGAELEGLVRAAQSTAMNRHIKASTKVEVDMKAESLQVTRGDFLASLENDIKP  
 AFGTNQEDYASYIMNGI IKWGDVPVTRVLDGELLVQQTKNSDRTPLVSVLLEGPPhSGKTAALAAIAEES  
 NFPFIKICSPDKMIGFSETAKCQAMKKIFDDAYKSQLSCVVVDDIERLLDYVPIGPRFNLVLQALLVLL  
 KKAPPQGRKLLIIGTTSRKDVLQEMEMLNAFSTTIHVPNIATGEQLLEALELLGNFKDKERTTIAQVKG  
 KKWIGIKLLMLIEMSLQMDPEYRVRKFLALMREEGASPLDFD

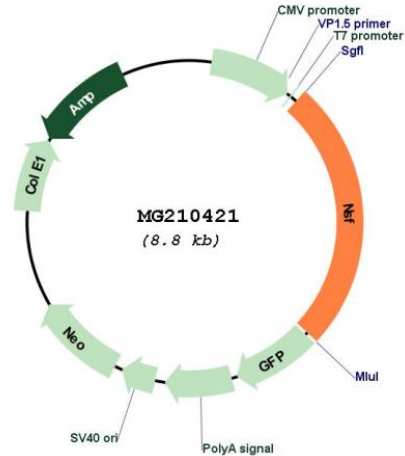
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_008740

**ORF Size:** 2232 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_008740.4](#)

**RefSeq Size:** 3787 bp

**RefSeq ORF:** 2235 bp

**Locus ID:** 18195

UniProt ID: [P46460](#)

Cytogenetics: 11 67.54 cM

Gene Summary: Required for vesicle-mediated transport. Catalyzes the fusion of transport vesicles within the Golgi cisternae. Is also required for transport from the endoplasmic reticulum to the Golgi stack. Seems to function as a fusion protein required for the delivery of cargo proteins to all compartments of the Golgi stack GRIA2 leads to influence GRIA2 membrane cycling (By similarity).[UniProtKB/Swiss-Prot Function]