

Product datasheet for **MR210421**

Nsf (NM_008740) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsf (NM_008740) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nsf
Synonyms:	AI316878; AU020090; AU067812; SKD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210421 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCCGGACTATGCAAGCTGCGAGATGCCCTACTGATGAATTATCTTTAAGCAACTGTGCGGTTG
 TGAACGAAAAAGATTTCCAGTCTGGCCAGCATGTGATGGTGAGGACGTCCCCAATCACAAGTACATATT
 TACGCTGAGGACCCATCCGTGAGTGTCCAGGATGCATCGCGTTCAGCTTGCCTCAGCGAAAAATGGCT
 GGACTTTCTATTGGACAGGACATAGAAGTTGCCTTGATTGTTTACAAAGCCAAGCAGTGCATCGGCA
 CAATGACCATCGAGATCGACTTCTGCAGAAGAAGAACATCGACTCCAACCTTACGACACCGACAAGAT
 GGCCGCCGAGTTCATCCAGCAGTTCAACAACCAGGCCTTCTCAGTGGGGCAGCAGCTTGTCTTAGCTTC
 AATGATAAGCTCTTTGGATTACTGGTGAAGGACATTGAAGCCATGGATCCAGCATCCTGAAGGGAGAGC
 CTGCATCAGGCAAAGGCAGAAGATTGAGGTAGGCCTGGTTGTTGGAAACAGTCAAGTTGCATTTGAAAA
 AGCAGAAAATTCGTCGCTCAATCTTATCGGCAAAGCTAAAACCAAGGAAAATCGCCAGTCCATCATCAAT
 CCCGACTGGAACCTTTGAGAAAATGGGGATCGGGCGTCTGGATAAAGGAGTTCTCGGACATTTCCGAAGAG
 CATTTGCTTCTCGGGTGTTCACCCCGGAGATCGTGAACAGATGGGTTGCAAACATGTTAAAGGCATCCT
 GTTATACGGACCCCTGGTTGTGGTAAAACCTCTTGGCTCGACAGATTGGCAAGATGCTGAATGCGAGA
 GAGCCCAAGGTGGTCAATGGGCCAGAAATCCTTAAACAAGTATGTGGGAGAATCAGAGGCTAACATTCGTA
 AACTCTTTGCTGATGCCGAAGAGGAGCAAAGGAGGCTTGGTGCTAACAGTGGCTTGACATCATCATCTT
 TGATGAAATCGATGCCATCTGCAAGCAGAGAGGGAGCATGGCCGGCAGCACTGGAGTGCATGACACCGTG
 GTCAACCAGCTGCTGTCCAAGATCGATGGCGTTGAGCAGCTGAACAACATCCTCGTTATCGGAATGACCA
 ATAGACCAGATTTGATAGACGAAGCTCTCTTCGACCCGGAAGACTGGAAGTTAAAATGGAGATAGGCTT
 GCCAGATGAGAAGGGTCCGACTCCAGATCCTTCATATCCACACAGCAAGGATGAGAGGGCACCAGTTACTG
 TCTGCAGATGTGGACATCAAGGAGCTGGCTGTGGAGACTAAGAATTTTCAGTGGCGCTGAGCTGGAGGGTC
 TGGTGCAGCAGCGCAGTCCACAGCCATGAACAGACATATCAAGGCCAGCACCAAGTAGAAGTAGACAT
 GGAGAAGGCAGAGAGCCTGCAGGTGACAAGAGGGGACTTCTTGTTCCTGGAGAACGATATCAAACCA
 GCATTTGGCACCAACCAAGAGGATTATGCAAGTTACATTATGAATGGGATCATCAAGTGGGGTGACCCCG
 TGACCCGAGTCTAGATGACGGAGAGCTGCTGGTCCAGCAAACGAAAAACAGTACCAGGACACCACTCGT
 TAGTGTCTCTCTAGAAGGGCCTCCTCACAGCGGAAGACTGCCCTGGCTGCAAAGATTGCCGAGGAATCC
 AACTTCCCCTTCAAGATCTGCTCACCTGATAAGATGATTGGCTTCTCCGAGACAGCCAAGTGCAGG
 CCATGAAGAAGATCTTTGATGATGCTTACAAATCTCAGCTCAGCTGTGTGGTCTGGATGACATTGAGAG
 GCTGCTCGATTATGTCCCATTTGGTCCCCGGTTCTCCAACCTGGTATTGCAGGCTCTTCTTGTGTTACTG
 AAAAAGGCGCCTCCTCAGGGCCGCAAGCTTCTTATCATCGGGACCACCAGCCGCAAAGATGTCCTGCAGG
 AAATGGAGATGCTGAACGCCTTACGACCACCATCCACGTGCCCAACATTGCCACAGGAGAGCAGCTGCT
 GGAAGCTCTGGAGCTTTTGGGCAACTTCAAAGATAAGGAACGCACCACAATTGCTCAGCAAGTCAAAGGG
 AAGAAAGTCTGGATAGGAATCAAGAAAGTACTAATGTTGATTGAGATGTCCTGCAGATGGATCCTGAGT
 ACCGTGTGAGGAAATCTTGGCCCTCATGAGAGAAGAAGGCGCTAGTCCCCTGGACTTTGAT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >MR210421 protein sequence
 Red=Cloning site Green=Tags(s)

MAGRTMQAARCPDDELSLNCVAVNEKDFQSGQHVMVRTSPNHKYIFTLRTHPSVVPGCIAFSLPQRKWA
 GLSIGQDIEVALYSFDKAKQCIGTMTIEIDFLQKKNIDSNPYDTKMAAEFIQQFNNQAFSVGQQLVFSF
 NDKLFGLLVKDIEAMDPSILKGEFASGRQKIEVGLVVGNSQVAFEKAENSSLNLIGKAKTKENRQSIIN
 PDWNFEKMGIGGLDKEFSDIFRRAFASRVFPPEIVEQMGCKHVKGILLYGPPGCGKTLARQIGKMLNAR
 EPKVVNGPEILNKYVGESEANIRKLFADAEQEQRRLGANSGLHIIIFDEIDAICKQRGSMAGSTGVHDTV
 VNQLLSKIDGVEQLNNILVIGMTNRPDLIDEALLRPGRLVMEIGLPDEKGRQLIHIHTARMRGHQLL
 SADVDIKELAVETKNFSGAELEGLVRAAQSTAMNRHIKASTKVEVDMKAESLQVTRGDFLASLENDIKP
 AFGTNQEDYASYIMNGI IKWGDVPVTRVLDGELLVQQTKNSDRTPLVSVLLEGPPhSGKTAALAAIAEES
 NFPFIKICSPDKMIGFSETAKCQAMKKIFDDAYKSQLSCVVDDIERLLDYVPIGPRFSNLVLQALLVLL
 KKAPPQGRKLLIIGTTSRKDVLQEMEMLNAFSTTIHVPNIATGEQLLEALELLGNFKDKERTTIAQVVKG
 KKVWIGIKLLMLIEMSLQMDPEYRVRKFLALMREEGASPLDFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008740

ORF Size: 2235 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: 3766 bp

RefSeq ORF: 2235 bp

Locus ID: 18195

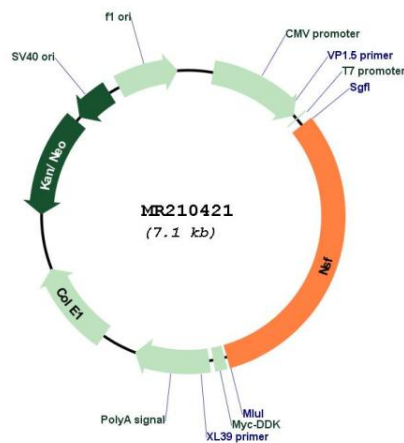
UniProt ID: [P46460](#)

Cytogenetics: 11 67.54 cM

MW: 82.6 kDa

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]

Product images:



Circular map for MR210421