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Product datasheet for RG205983

NSF (NM_006178) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSF (NM_006178) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NSF
Synonyms:	SEC18; SKD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG205983 representing NM_006178
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCCGGAGCATGCAAGCGGCAAGATGTCCTACAGATGAATTATCTTTAACCAATTGTGCAGTTG
TGAATGAAAAGGATTTCCAGTCTGGCCAGCATGTGATTGTGAGGACCTCTCCCAATCACAGGTACACATT
TACACTGAAGACACATCCATCGGTGGTTCCAGGGAGCATTGCATTCAGTTTACCTCAGAGAAAATGGGCT
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CAATGACCATCGAGATTGATTTCCTGCAGAAAAAAAGCATTGACTCCAACCCTTATGACACCGACAAGAT
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CATTTGCTTCCCGAGTATTTCCTCCAGAGATTGTGGAGCAGATGGGTTGTAAACATGTTAAAGGCATCCT
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GAGCCCAAAGTGGTCAATGGGCCAGAAATCCTTAACAAATATGTGGGAGAATCAGAGGCTAACATTCGCA
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GCCAGATGAGAAAGGCCGACTACAGATTCTTCACATCCACACAGCAAGAATGAGAGGGCATCAGTTACTC
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AAGAAGGTCTGGATAGGAATCAAGAAGTTACTAATGCTGATCGAGATGTCCCTACAGATGGATCCTGAAT
ACCGTGTGAGAAAATTCTTGGCCCTCTTAAGAGAAGAAGGAGCTAGCCCCCTTGATTTTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205983 representing NM_006178
Red=Cloning site Green=Tags(s)

MAGRSMQAARCPTDELSLTNCAVVNEKDFQSGQHVIVRTSPNHRYTFTLKTHPSVVPGSIAFSLPQRKWA
GLSIGQEIEVSLYTFDKAKQCIGTMTIEIDFLQKKSIDSNPYDTDKMAAEFIQQFNNQAFSVGQQLVFSF
NEKLFGLLVKDIEAMDPSILKGEPATGKRQKIEVGLVVGNSQVAFEKAENSSLNLIGKAKTKENRQSIIN
PDWNFEKMGIGGLDKEFSDIFRRAFASRVFPPEIVEQMGCKHVKGILLYGPPGCGKTLLARQIGKMLNAR
EPKVVNGPEILNKYVGESEANIRKLFADAEEEQRRLGANSGLHIIIFDEIDAICKQRGSMAGSTGVHDTV
VNQLLSKIDGVEQLNNILVIGMTNRPDLIDEALLRPGRLEVKMEIGLPDEKGRLQILHIHTARMRGHQLL
SADVDIKELAVETKNFSGAELEGLVRAAQSTAMNRHIKASTKVEVDMEKAESLQVTRGDFLASLENDIKP
AFGTNQEDYASYIMNGIIKWGDPVTRVLDDGELLVQQTKNSDRTPLVSVLLEGPPHSGKTALAAKIAEES
NFPFIKICSPDKMIGFSETAKCQAMKKIFDDAYKSQLSCVVVDDIERLLDYVPIGPRFSNLVLQALLVLL
KKAPPQGRKLLIIGTTSRKDVLQEMEMLNAFSTTIHVPNIATGEQLLEALELLGNFKDKERTTIAQQVKG
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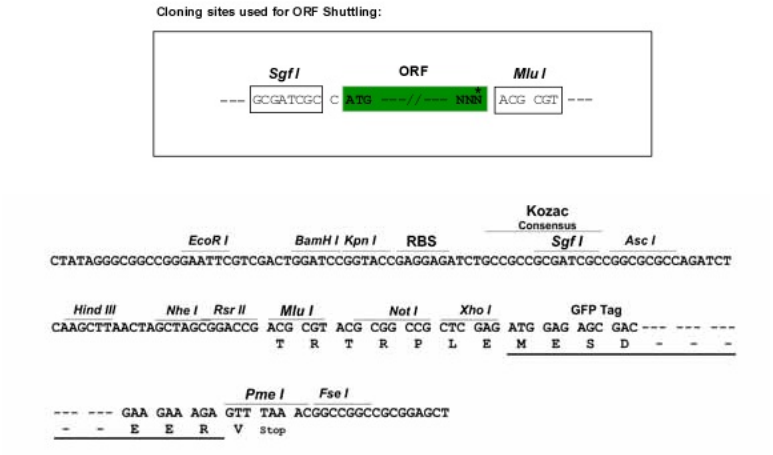
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006178

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_006178.1, NP_006169.1

RefSeq Size: 3960 bp

RefSeq ORF: 2235 bp

Locus ID: 4905

UniProt ID: P46459

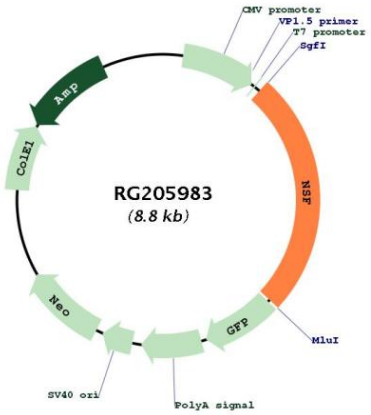
Cytogenetics: 17q21.31

Domains: cdc48_N, AAA, AAA, cdc48_2

Protein Families: Protease

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 independent of vesicle origin. Interaction with AMPAR subunit GRIA2 leads to influence GRIA2 membrane cycling (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205983