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Product datasheet for SC116292

NSF (NM_006178) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSF (NM_006178) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSF
Synonyms:	SEC18; SKD2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC116292 sequence for NM_006178 edited (data generated by NextGen Sequencing)

ATGGCGGGCCGGAGCATGCAAGCGGCAAGATGTCCTACAGATGAATTATCTTTAACCAAT
TGTGCAGTTGTGAATGAAAAGGATTTCCAGTCTGGCCAGCATGTGATTGTGAGGACCTCT
CCCAATCACAGGTACACATTTACACTGAAGACACATCCATCGGTGGTTCCAGGGAGCATT
GCATTCAGTTTACCTCAGAGAAAATGGGCTGGGCTTTCTATTGGGCAAGAAATAGAAGTC
TCCTTATATACATTTGACAAAGCCAAACAGTGTATTGGCACAATGACCATCGAGATTGAT
TTCCTGCAGAAAAAAAGCATTGACTCCAACCCTTATGACACCGACAAGATGGCAGCAGAA
TTTATTCAGCAATTCAACAACCAGGCCTTCTCAGTGGGACAACAGCTTGTCTTTAGCTTC
AATGAAAAGCTTTTTGGCTTACTGGTGAAGGACATTGAAGCCATGGATCCTAGCATCCTG
AAGGGAGAGCCTGCGACAGGGAAAAGGCAGAAGATTGAAGTAGGACTGGTTGTTGGAAAC
AGTCAAGTTGCATTTGAAAAAGCAGAAAATTCGTCACTTAATCTTATTGGCAAAGCTAAA
ACCAAGGAAAATCGCCAATCAATTATCAATCCTGACTGGAACTTTGAAAAAATGGGAATA
GGAGGTCTAGACAAGGAATTTTCAGATATTTTCCGACGAGCATTTGCTTCCCGAGTATTT
CCTCCAGAGATTGTGGAGCAGATGGGTTGTAAACATGTTAAAGGCATCCTGTTATATGGA
CCCCCAGGTTGTGGTAAGACTCTCTTGGCTCGACAGATTGGCAAGATGTTGAATGCAAGA
GAGCCCAAAGTGGTCAATGGGCCAGAAATCCTTAACAAATATGTGGGAGAATCAGAGGCT
AACATTCGCAAACTTTTTGCTGATGCTGAAGAGGAGCAAAGGAGGCTTGGTGCTAACAGT
GGTTTGCACATCATCATCTTTGATGAAATTGATGCCATCTGCAAGCAGAGAGGGAGCATG
GCTGGTAGCACGGGAGTTCATGACACTGTTGTCAACCAGTTGCTGTCCAAAATTGATGGC
GTGGAGCAGCTAAACAACATCCTAGTCATTGGAATGACCAATAGACCAGATCTGATAGAT
GAGGCTCTTCTTAGACCTGGAAGACTGGAAGTTAAAATGGAGATAGGCTTGCCAGATGAG
AAAGGCCGACTACAGATTCTTCACATCCACACAGCAAGAATGAGAGGGCATCAGTTACTC
TCTGCTGATGTAGACATTAAAGAACTGGCCGTGGAGACCAAGAATTTCAGTGGTGCTGAA
TTGGAGGGTCTGGTGCGAGCAGCCCAGTCCACTGCTATGAATAGACACATAAAGGCCAGT
ACTAAAGTGGAAGTGGACATGGAGAAAGCAGAAAGCCTGCAAGTGACGAGAGGAGACTTC
CTTGCTTCTTTGGAGAATGATATCAAACCAGCCTTTGGCACAAACCAAGAAGATTATGCA
AGTTACATTATGAACGGTATCATCAAATGGGGTGACCCAGTTACTCGAGTTCTAGATGAT
GGGGAGCTGCTGGTGCAGCAGACTAAGAACAGTGACCGCACACCATTGGTCAGCGTGCTT
CTGGAAGGCCCTCCTCACAGTGGGAAGACTGCTTTAGCTGCAAAAATTGCAGAGGAATCC
AACTTCCCGTTCATCAAGATCTGTTCTCCTGATAAAATGATTGGCTTTTCTGAAACAGCC
AAATGTCAGGCCATGAAGAAGATCTTTGATGATGCGTACAAATCCCAGCTCAGTTGTGTG
GTTGTGGATGACATTGAGAGATTGCTTGATTACGTCCCTATTGGCCCTCGATTTTCAAAT
CTTGTATTACAGGCTCTTCTCGTTTTACTGAAAAAGGCACCTCCTCAGGGCCGCAAGCTT
CTTATCATTGGGACCACTAGCCGCAAAGATGTCCTTCAGGAGATGGAAATGCTTAACGCT
TTCAGCACCACCATCCACGTGCCCAACATTGCCACAGGAGAGCAGCTGTTGGAAGCTTTG
GAGCTTTTGGGCAACTTCAAGGATAAGGAACGCACCACAATTGCACAGCAAGTCAAAGGG
AAGAAGGTCTGGATAGGAATCAAGAAGTTACTAATGCTGATCGAGATGTCCCTACAGATG
GATCCTGAATACCGTGTGAGAAAATTCTTGGCCCTCTTAAGAGAAGAAGGAGCTAGCCCC
CTTGATTTTGATTGA

Clone variation with respect to NM_006178.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006178 unedited
TCTTTTTGTATACGACTTATCTATAGGGCGGCCGCGAATTCGCACGAGGCGGACGTGTCC
GCGAAGAGGCGGGCCGGAGCATGCAAGCGGCAAGATGTCCTACAGATGAATTATCTTTAA
CCAATTGTGCAGTTGTGAATGAAAAGGATTTCCAGTCTGGCCAGCATGTGATTGTGAGGA
CCTCTCCCAATCACAGGTACACATTTACACTGAAGACACATCCATCGGTGGTTCCAGGGA
GCATTGCATTCAGTTTACCTCAGAGAAAATGGGCTGGGCTTTCTATTGGGCAAGAAATAG
AAGTCTCCTTATATACATTTGACAAAGCCAAACAGTGTATTGGCACAATGACCATCGAGA
TTGATTTCCTGCAGAAAAAAAGCATTGACTCCAACCCTTATGACACCGACAAGATGGCAG
CAGAATTTATTCAGCAATTCAACAACCAGGCCTTCTCAGTGGGACAACAGCTTGTCTTTA
GCTTCAATGAAAAGCTTTTTGGCTTACTGGTGAAGGACATTGAAGCCATGGATCCTAGCA
TCCTGAAGGGAGAGCCTGCGACAGGGAAAAGGCAGAAGATTGAAGTACGACTGGTTGTTG
GAAACAGTCAAGTTGCATTTGAAAAAGCAGAAAATTCGTCACTTAATCTTATTGGCAAAG
CTAAACCCAGGAAAATCGCCCATCAATTATCAATCCTGACTGGAACTTTTGAAAAAGGGA
ATAGGAGGTCTAGACCAGGAATTTTAGATATCTTCCGACAAGCATTTGCTTTCCGAGTAT
TTCCTTCCAAAATTGTGGAGCAGAAGGGGTTGTACACATGGTAACAGGCATCCTGTTTTT
TGGACCCCCCAGCTGGCGGCAAGACTCTCTTGCTTCCACCAATTGGCCAGAGTTGAATGC
AAGAAAGCCCAAGTGGTCATGGGGCTCAAATTCTTAACCAAATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006178 unedited
TTTTTTTCAAGTATATTTCNACTCNCTNTNTNNATNTGGGCATTNCCTTCATTTGCATTA
AACAATATTTTTTCAATACAGTTTTGGACAAAACACAAAGACATTAAGCCTCATTTTAAC
AAGAGACATAAGTTAACACAATGTGTGCTGCTTTTCATGAGGAGGAAAGAGGCAANNNNN
NNATNNCCTTTAGAGGAATTCCAGGATACTGGCCACNCCCNNANNNGAATCACAGGATCN
CTTTNNNNNNNAATACAATCNCCCCAATTTTTTTCNCCCCTTTTTAANNAAAGACCCCAA
AATAAGCTAAGGAAGAAAACCCAAACAAAGAAGAATTGACCTCCAAGTCTCCCCAAAAGT
ATACAAATGGCAAGATTTGGAGATGATCTGCTTTCTCACATGAGGACAAAATACAGAGGA
GCCCCACCCAAGTGCCACTGTGGCCACAAGCCTCATGGGTGGCGTGTGAGGTAAGCACCT
TNAGATGGCTTCTAATTGCTTGTCCTTGCATTTTAAGCAGCAGTTGGGAGAGAGAGCACA
CTCCATAAGTCTCATCACCAAATATGACCTAATTAAATTCCTGCTAAGTCAGTCAGTTGT
AAGACAAATCACCCTCAAAAGGACTCAACGGGTGCTTCCTTTTGGAAGAAGTGTGTGNAG
GGTAAAGAAATGTGTTCAATGTATTGGAATGGACAATAAAGGACTGAAGGAGAAGCCTAC
AAAATGATTGATTTTTTCTGGAAATTAATGTTTTAAACCCTAGATAGTCCAGATCATTTA
AAATAAAGGATAATTCTCAATAATCTTTAACCTAGGAAAAAACCGTGGTTCTAGTTAGGC
CTAATTTTTTCCTTAGGAATGCCCCCTTTGAATGGGCACCTATTAGGCTGGGGAGTTGGA
AATACTTTAAAACCCTTTTTTTTGGGGGGGATGCCTTCCCTCCCT

Restriction Sites: NotI-NotI

ACCN: NM_006178

Insert Size: 4260 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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] Transcript Variant: This variant (1) represents the longer transcript and encodes the protein.