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Product datasheet for MG203337

Snf8 (NM_033568) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snf8 (NM_033568) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snf8
Synonyms:	D11Moh34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG203337 representing NM_033568
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCGGCGCGGGGTGGGAGCTGGCGCCATTGCCAAGAAGAAACTCGCAGAGGCCAAGTATAAGGAGC
GAGGGACTGTCCTGGCTGAGGACCAGCTGGCCCAGATGTCAAAACAGCTGGACATGTTCAAGACCAACCT
AGAAGAATTTGCCAGCAAGCACAAGCAAGAGATCCGGAAGAATCCTGAGTTCCGAGTCCAGTTCCAAGAC
ATGTGTGCAACCATTGGGGTGGATCCCCTGGCCTCTGGAAAAGGCTTTTGGTCTGAGATGCTGGGCGTTG
GGGACTTCTATTATGAACTGGGTGTCCAGATTATTGAAGTGTGCCTGGCCCTCAAACATCGGAATGGAGG
TCTGATAACTCTGGAGGAGCTACATCAGCAGGTGTTAAAAGGAAGGGGCAAGTTTGCTCAGGATGTCAGC
CAAGACGACCTGATCAGGGCCATCAAGAAGCTGAAAGCCCTGGGCACTGGATTCGGCATCATCCCTGTGG
GAGGCACTTACCTCATCCAGTCTGTTCCCGCTGAGCTCAATATGGATCACACTGTTGTGCTGCAGCTGGC
CGAGAAAAACGGGTATGTGACTGTCAGTGAAATCAAAACCAGTCTTAAATGGGAGACGGAGCGAGCACGG
CAAGTGCTGGAACACCTGCTGAAGGAAGGACTGGCCTGGCTGGATCTGCAGGCTCCAGGGGAGGCCCACT
ACTGGCTGCCAGCTCTTTTCACAGATCTCTACTCCCAGGAGATATCAGCTGAGGAGGCCAAAGAAGCCTT
CCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

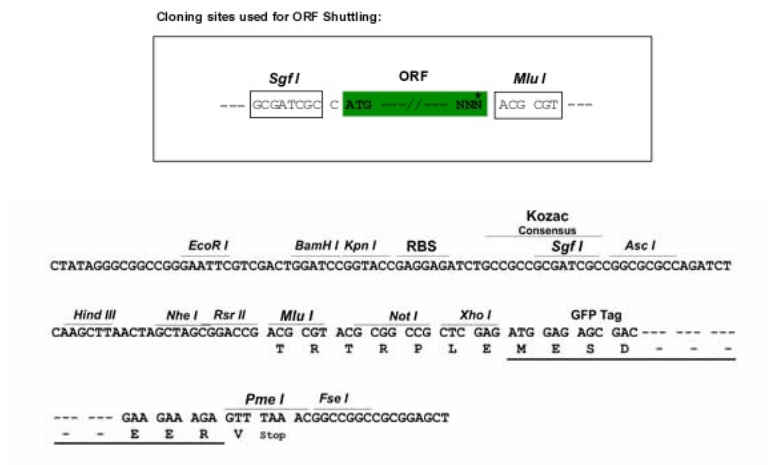
>MG203337 representing NM_033568
Red=Cloning site Green=Tags(s)

MHRRGVGAGAIAKKKLAEAKYKERGTVLAEDQLAQMSKQLDMFKTNLEEFASKHKQEIRKNPEFRVQFQD
MCATIGVDPLASGKGFWSEMLGVGDFYYELGVQIIEVCLALKHRNGGLITLEELHQQVLKGRGKFAQDVS
QDDLIRAIKKLKALGTGFGIIPVGGTYLIQSVPAELNMDHTVVLQLAEKNGYVTVSEIKTSLKWETERAR
QVLEHLLKEGLAWLDLQAPGEAHYWLPALFTDLYSQEISAEEAKEAFP

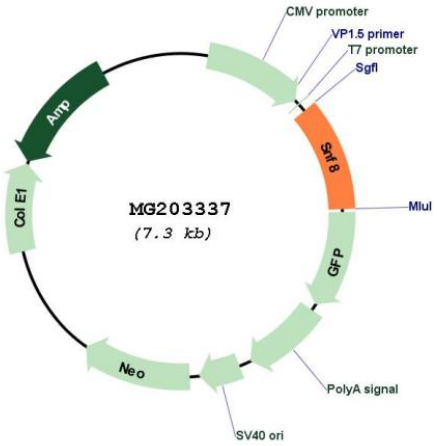
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_033568

ORF Size: 774 bp

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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_033568.3
RefSeq Size:	949 bp
RefSeq ORF:	777 bp
Locus ID:	27681
UniProt ID:	Q9CZ28
Cytogenetics:	11 59.24 cM
Gene Summary:	Component of the endosomal sorting complex required for transport II (ESCRT-II), which is required for multivesicular body (MVB) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates delivery of transmembrane proteins into the lumen of the lysosome for degradation. The ESCRT-II complex is probably involved in the recruitment of the ESCRT-III complex. The ESCRT-II complex may also play a role in transcription regulation by participating in derepression of transcription by RNA polymerase II, possibly via its interaction with ELL. Required for degradation of both endocytosed EGF and EGFR, but not for the EGFR ligand-mediated internalization. Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]

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