OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG222660

Snw1 (NM_025507) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snw1 (NM_025507) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snw1
Synonyms:	2310008B08Rik; AW048543; NCoA-62; Skiip; SKIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG222660 representing NM_025507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCTCACCAGCTTTTTACCTGCGCCTACTCAGCTGTCTCAGGACCAACTTGAAGCTGAAGAAAGGG
CAAGATCTCAGAGATCACTGCAGACCTCTCTGGTCTCCTCTCGAAGGGAGCCTCCCCCATACGGATATAG
GAAAGGCTGGATTCCAAGACTATTAGAGGATTTTGGAGATGGAGGTGCTTTCCCAGAAATCCATGTGGCC
CAGTATCCTCTGGATATGGGGCGAAAGAAAAAAATGTCGAATGCTCTGGCCATTCAGGTGGATCCTGAAG
GGAAAATTAAGTATGATGCAATTGCTCGGCAGGGACAGTCCAAAGACAAGGTCATTTACAGCAAATACAC
TGACCTGGTTCCTAAGGAGGTTATGAATGCAGATGACCCAGACCTGCAACGGCCCGATGAAGAGGCAATT
AAAGAGATAACAGAAAAGACTAGAGTTGCCTTGGAGAAATCTGTGTCGCAGAAGGTTGCTGCAGCCATGC
CAGTTCGTGCAGCTGACAAGCTGGCTCCTGCTCAGTATATCCGCTACACACCATCTCAGCAAGGAGTAGC
ATTCAATTCTGGAGCTAAACAGAGGGTCATTCGGATGGTAGAAATGCAGAAAGACCCAATGGAGCCTCCA
AGATTCAAGATTAATAAGAAAATTCCCCGGGGACCACCGTCTCCTCCTGCACCTGTAATGCACTCTCCTA
GTCGGAAGATGACTGTAAAGGAACAACAAGAGTGGAAGATCCCGCCTTGTATTTCCAACTGGAAGAACGC
TAAGGGGTATACGATCCCATTAGATAAACGGCTGGCTGCTGATGGAAGAGGACTTCAGACTGTCCACATA
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TGCGAGCCCAGGTAGAGAGAAAGATGGCTCAAAAAGAAAAGGAGAAACATGAAGAGAAACTTAGAGAAAT
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GAGAGAGATGAAATCCGTCATGACAGGCGAAAAGAGAGACAGCATGACCGGAACCTTTCCAGGGCAGCTC
CTGATAAGAGGTCAAAACTACAGAGAAATGAAAATCGAGACATCAGTGAAGTCATTGCTCTTGGTGTGCC
CAATCCTCGAACTTCCAATGAAGTTCAGTATGACCAAAGGCTCTTCAACCAATCCAAGGGTATGGACAGT
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CCCAGAGCATCTACAGGCCCAGTAAAAATCTGGACAAGGACATGTATGGTGATGACCTGGAAGCCAGGAT
AAAGACCAACAGATTTGTTCCTGATAAGGAGTTTTCTGGATCAGACCGCAAACAGAGAGGCCGAGAAGGA
CCAGTGCAGTTTGAGGAGGATCCTTTTGGTTTGGACAAGTTTTTGGAAGAAGCCAAACAGCACGGTGGTT
CTAAAAGACCCTCTGATAGCAGTCGCCCCAAGGAACATGAGCATGAAGGCAAGAAGCGGAGGAAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

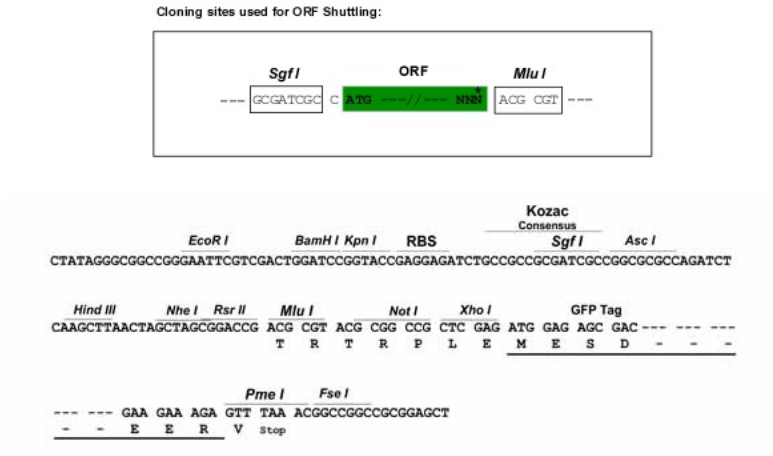
>MG222660 representing NM_025507
Red=Cloning site Green=Tags(s)

MALTSFLPAPTQLSQDQLEAEERARSQRSLQTSLVSSRREPPPYGYRKGWIPRLLEDFGDGGAFPEIHVA
QYPLDMGRKKKMSNALAIQVDPEGKIKYDAIARQGQSKDKVIYSKYTDLVPKEVMNADDPDLQRPDEEAI
KEITEKTRVALEKSVSQKVAAAMPVRAADKLAPAQYIRYTPSQQGVAFNSGAKQRVIRMVEMQKDPMEPP
RFKINKKIPRGPPSPPAPVMHSPSRKMTVKEQQEWKIPPCISNWKNAKGYTIPLDKRLAADGRGLQTVHI
NENFAKLAEALYIADRKAREAVEMRAQVERKMAQKEKEKHEEKLREMAQKARERRAGIKTHVEKEDGEAR
ERDEIRHDRRKERQHDRNLSRAAPDKRSKLQRNENRDISEVIALGVPNPRTSNEVQYDQRLFNQSKGMDS
GFAGGEDEIYNVYDQAWRGGKDMAQSIYRPSKNLDKDMYGDDLEARIKTNRFVPDKEFSGSDRKQRGREG
PVQFEEDPFGLDKFLEEAKQHGGSKRPSDSSRPKEHEHEGKKRRKE

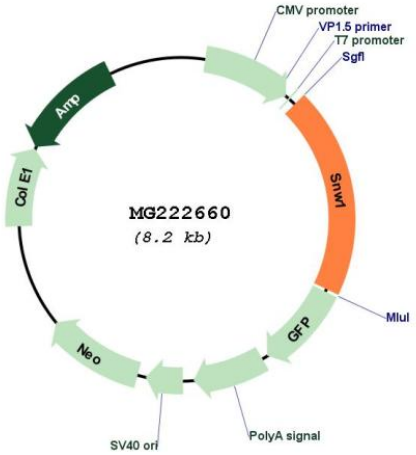
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_025507
ORF Size:	1608 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_025507.2, NP_079783.2
RefSeq Size:	2257 bp
RefSeq ORF:	1611 bp
Locus ID:	66354
UniProt ID:	Q9CSN1
Cytogenetics:	12 D2
Gene Summary:	Involved in pre-mRNA splicing as component of the spliceosome. Is required in the specific splicing of CDKN1A pre-mRNA; the function probably involves the recruitment of U2AF2 to the mRNA. Is proposed to recruit PPIL1 to the spliceosome. May be involved in cyclin-D1/CCND1 mRNA stability through the SNARP complex which associates with both the 3'end of the CCND1 gene and its mRNA. Involved in transcriptional regulation. Modulates TGF-beta-mediated transcription via association with SMAD proteins, MYOD1-mediated transcription via association with PABPN1, RB1-mediated transcriptional repression, and retinoid-X receptor (RXR)- and vitamin D receptor (VDR)-dependent gene transcription in a cell line-specific manner probably involving coactivators NCOA1 and GRIP1. Is involved in NOTCH1-mediated transcriptional activation. Binds to multimerized forms of Notch intracellular domain (NICD) and is proposed to recruit transcriptional coactivators such as MAML1 to form an intermediate preactivation complex which associates with DNA-bound CBF-1/RBPJ to form a transcriptional activation complex by releasing SNW1 and redundant NOTCH1 NICD. [UniProtKB/Swiss-Prot Function]