

Product datasheet for **MG206320**

Sag (NM_009118) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sag (NM_009118) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sag
Synonyms:	A930001K18Rik; Arr1; arrestin; Irbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206320 representing NM_009118 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCTGCGGGAAGACCAATAAATCCCACGTCATCTTCAAGAAGGTCTCTCGGACAAGTCGGTGA
CCATCTACCTGGGGAAGAGACTATGTAGACCACGTACGCCAAGTAGAGCCTGTAGATGGTGTGTGCT
GGTGGACCCTGAGCTTGTGAAGGGGAAGAAGGTGTATGTCACCCTGACCTGCGCCTCCGCTATGGCCAG
GAGGACATTGATGTGATGGCCCTGACCTCCCGAGGGACCTGTATTTTCTCGGGTCCAGGTATACCCCTC
CTGTTGGGGCCATGAGTGTCTCACCCTCAAGAGAGCCTGCTCAAGAACTGGGAGACAACACGTA
CCCTTTCTGCTCAGTTTCTGACTACCTACCCTGTTTCAGTGATGTTGCAGCCAGCTCCCAGGATGTA
GGCAAGAGCTGTGGGTTGACTTTGAGGTTAAAGCATTTCCTCAGACATCACAGATCCTGAGGAGACA
AGATCCCCAAGAAGAGCTCTGTGCGGTTACTGATCCGGAAGTGCAGCATGCCCCACCTGAGATGGGTCC
CCAGCCCAGTGCTGAAGCCTCCTGGCAGTTCTTCATGTCTGACAAGCCCCTGAACCTCTCAGTCTCCCTC
AGCAAAGAGATATATTTCCATGGGGAGCCCATCCCCGTGACTGTGACCGTGACCAACAACACCGACAAGG
TTGTGAAGAAGATTAAGTATCAGTGGAACAGATAGCCAATGTGGTCTCTACTCAAGTGACTATTACGT
CAAGCCTGTAGCCTCGGAGGAAACACAAGAAAAAGTGCAGCCAACAGCACTTTGACCAAGACACTGGTG
CTGGTCCCCTACTGGCTAACAAACAGAGAAAGAGGCATCGCGCTGGATGGGAAGATCAAGCATGAGG
ACACAAAACCTGGCCTCCAGCACCATCATCAAGGAGGGCATCGACCGGACCGTCATGGGGATCCTGGTGT
ATACCATATCAAGGTGAAGCTCACGGTGTGCGGCTTTCTAGGAGAGCTCACATCCAGTGAAGTGGTACC
GAGGTGCCGTTCCGCTCATGCACCCGACGCTGAGGATCCAGCAAAAAGAAAGTGTTCAGGATGAAAATT
TGGTTTTGAAGAGTTTCTCGCCAAAATCTGAAAGATACTGGAGAGAACCAGAAAGGGAAGAAAGATGA
GGATGCTGGCCAGGATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206320 representing NM_009118
 Red=Cloning site Green=Tags(s)

MAACGKTNKSHVIFKKVSRDKSVTIYLGKRQYVDHVSQVEPVDGVVLDPELVKGGKVVYVLTCAFYRQ
 EDIDVMGLTFRRLDYFSRVQVYPPVGAMSVLTQLQESLLKKGNDNTYFLLTFPDYLPCSVMLQPAPQDV
 GKSCGVDFEVKAFASDITDPEEDKIPKSSVRLIRKQVHAPPENMGQPQSAEASWQFFMSDKPLNLSVSL
 SKEIYFHGEPIPVTVVTNNTDKVVKIKVSEQIANVVLYSSDYVVKPVASEETQEKVQPNSTLTKTLV
 LVPLLANNRERRGIALDGKIKHEDTNLASSTIIKEGIDRTVMGILVSYHIKVKLTVSGFLGELTSSEVAT
 EVPFRLMHPQPEDPAKESVQDENLVFEFARQNLKDTGENPEGKKDEDAGQDE

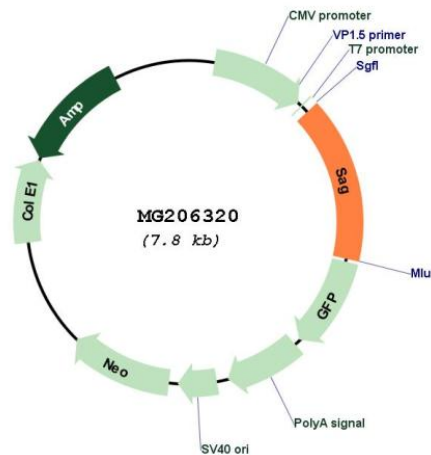
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009118

ORF Size:	1209 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:	<ol style="list-style-type: none">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_009118.2 , NP_033144.1
RefSeq Size:	1718 bp
RefSeq ORF:	1212 bp
Locus ID:	20215
UniProt ID:	P20443
Cytogenetics:	1 44.44 cM
Gene Summary:	Binds to photoactivated, phosphorylated RHO and terminates RHO signaling via G-proteins by competing with G-proteins for the same binding site on RHO (PubMed:9333241, PubMed:16421323). May play a role in preventing light-dependent degeneration of retinal photoreceptor cells (PubMed:16421323).[UniProtKB/Swiss-Prot Function]