

Product datasheet for **MG217453**

Sgsm1 (NM_001162965) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgsm1 (NM_001162965) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sgsm1
Synonyms:	2410098H20Rik; AA408781; D5Bwg1524e; E130107M15; NulP; Rutbc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217453 representing NM_001162965 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGATCGC**

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ATCCTCTCCAGAGCCTTCTATGGATGGCTCGCCTACTGCAGACACCTGTCCACCGTGAGGACCCACCTGT
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ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217453 representing NM_001162965

Red=Cloning site Green=Tags(s)

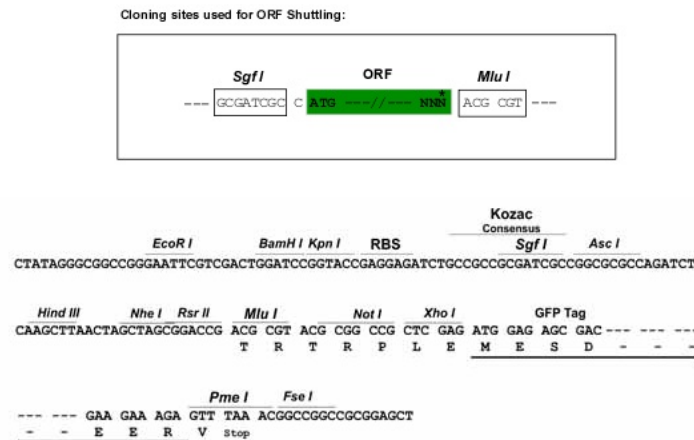
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TARLDNWNVSSSLGDTSPHRHLTFTLMSTSDRIIPGKCQTSTSHEYKSKTSQKKINKLNPRRYKILHCMA
KRVLSQKRKGGISIKHQSV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001162965

ORF Size: 3207 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.

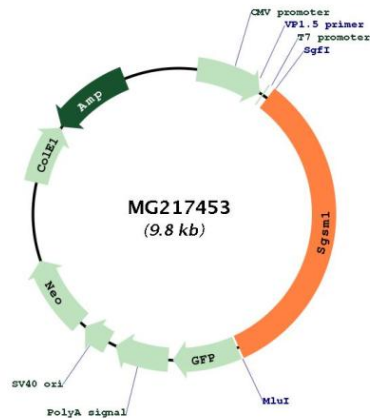
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001162965.1](#), [NP_001156437.1](#)

RefSeq Size: 3825 bp

RefSeq ORF:	3210 bp
Locus ID:	52850
UniProt ID:	Q8BPQ7
Cytogenetics:	5 55.45 cM
Gene Summary:	Interacts with numerous Rab family members, functioning as Rab effector for some, and as GTPase activator for others. Promotes GTP hydrolysis by RAB34 and RAB36. Probably functions as GTPase effector with RAB9A and RAB9B; does not stimulate GTP hydrolysis with RAB9A and RAB9B.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217453