

Product datasheet for MR224604

Smg7 (NM_001160257) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smg7 (NM_001160257) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smg7
Synonyms:	9430023P16Rik; mKIAA0250
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR224604 representing NM_001160257 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAGGACCGAAAACCTTGAATCAGAGGAGCATCTGAAATCAAGTAATATTAGGCAGGCAGAAGTCTCTGA
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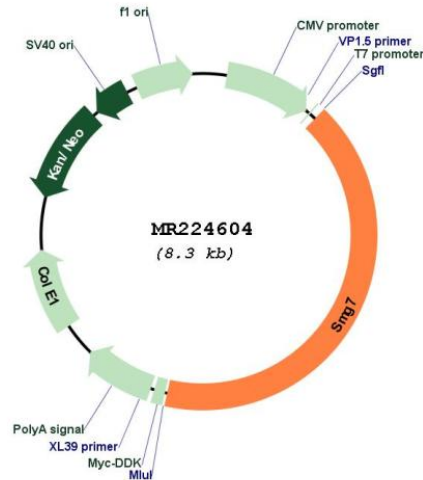


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AAGAAACATCTGTGGTAGAGTCACTGGCTACGGATGGGAGCCCAGGACTGAAATCAGTGCTGTCTACAGG
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ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:



ACCN: NM_001160257

ORF Size: 3438 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_001160257.2](#)

RefSeq Size: 5857 bp

RefSeq ORF: 3441 bp

Locus ID: 226517

UniProt ID: [Q5RIH6](#)

Cytogenetics: 1 G3

MW: 128.3 kDa

Gene Summary: Plays a role in nonsense-mediated mRNA decay. Recruits UPF1 to cytoplasmic mRNA decay bodies. Together with SMG5 is thought to provide a link to the mRNA degradation machinery involving exonucleolytic pathways, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation (By similarity). [UniProtKB/Swiss-Prot Function]