

## Product datasheet for **RC220801L3V**

### SMG7 (NM\_201569) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	SMG7 (NM_201569) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SMG7
Synonyms:	C1orf16; EST1C; SGA56M
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_201569
ORF Size:	3534 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC220801).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_201569.2</a>
RefSeq Size:	4789 bp
RefSeq ORF:	3537 bp
Locus ID:	9887
UniProt ID:	<a href="#">Q92540</a>
Cytogenetics:	1q25.3
MW:	131.6 kDa



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**Gene Summary:**

This gene encodes a protein that is essential for nonsense-mediated mRNA decay (NMD); a process whereby transcripts with premature termination codons are targeted for rapid degradation by a mRNA decay complex. The mRNA decay complex consists, in part, of this protein along with proteins SMG5 and UPF1. The N-terminal domain of this protein is thought to mediate its association with SMG5 or UPF1 while the C-terminal domain interacts with the mRNA decay complex. This protein may therefore couple changes in UPF1 phosphorylation state to the degradation of NMD-candidate transcripts. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Aug 2011]