

Product datasheet for SC305002

SMOC1 (NM_022137) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMOC1 (NM_022137) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMOC1
Synonyms:	OAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305002 representing NM_022137. Blue=Insert sequence Red=Cloning site Green=Tag(s)

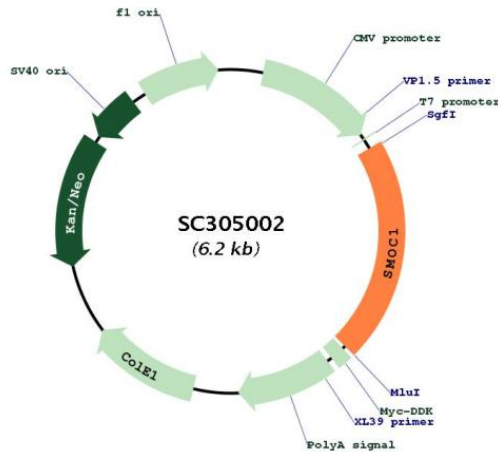
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TGCTCCAGGACTCAACCCAAACCATCTGTGCCTCTGATGGCAGGTCTACGAGTCCATGTGTGAGTAC
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_022137

Insert Size: 1305 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_022137.5](#)

RefSeq Size: 3713 bp

RefSeq ORF: 1305 bp

Locus ID: 64093

UniProt ID: [Q9H4F8](#)

Cytogenetics: 14q24.2

Protein Families: Secreted Protein

MW: 48.2 kDa

Gene Summary: This gene encodes a multi-domain secreted protein that may have a critical role in ocular and limb development. Mutations in this gene are associated with microphthalmia and limb anomalies. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]
Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site at the 3' terminal exon compared to variant 1. This results in an isoform (2) that is 1 aa shorter than isoform 1.