

Product datasheet for **MG215781**

Smok3b (NM_001039889) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Smok3b
Synonyms:	4931427P12Rik; Smok2b2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG215781 representing NM_001039889
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCCTGGGAGTCAACAGAAGTCAGAAAAGCTCAGATCCAAGTCCCCTTTGGCTGACATGGATGGTT
TGCATGCTCAATATGTGATGCTAGAGACTATCGGCCATGGAGGCTGTGCCACAGTGAAGCTGGCCAGCA
CCGCCTCACAGGCACTCACGTGGCTGTCAAACGATTCGAAAGAGGGAGTATTGGTGAACCGTGTCTATT
TCTGAGGTAGAGTTACTGATGATGGCCGATCATCCGAATATCATCTCTCTCTTCAAGTCATTGAGACCA
AGAAGAAAGTATACCTCATTATGGAGTTGTGAAGGGTAAATCACTTTACCAACACATCCGAAAAGCTGG
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ACACGCACCCGTAAGGAGTGTACCCTGCATTTGCTCAATGTTTTGCACAGTCCAGCCAAACAGCAGCG
AAGAGAGCACAAAGGCCACACAGAGCCTCAGCAGCAGATAAGCCTGTCCACAGCAGGGGCTGGCCAG
AGGCATCAAGGGCTGGACGAGGATGATAGGAAATGCGATGAGGAAGCTCTGTTGCTGTATCCCATCCAAA
GAGACATCTCACCTGGGCGAGAACAGAGTCTCCCCAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

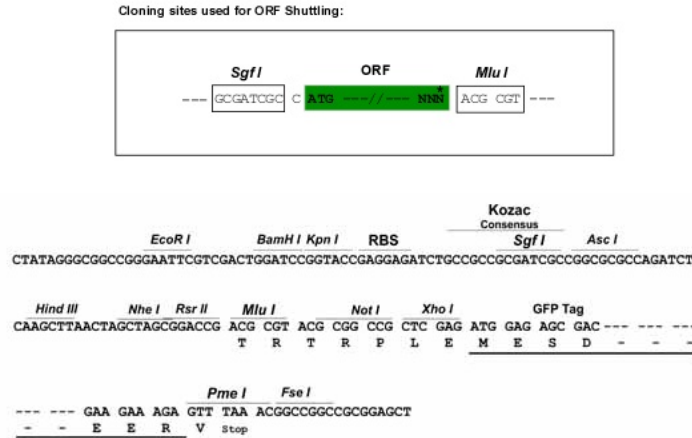
Protein Sequence: >MG215781 representing NM_001039889
Red=Cloning site Green=Tags(s)

MGPSQKSEKLRKSPDLADMDGLHAQYVMLETIGHGGCATVKLAQHRLTGHVAVKTIKREYWCNRVI
SEVELLMADHPNIIISLLQVIETKKKVYLIMELCKGKSLYQHIRKAGYLQEHEARALFKQLLSAMNYCHN
QGIIVHRDLKPDNIMVEKDGKVKIIDFGLGTVKPGQKLNLCGTYPFSAPEVLLSTPYDGPKIDVWTLGV
VLYFMVTGKIPFDACSIKKLVKRILAGKYSIPSRLSAELQDLLSLLMTANPKLRPTVAEVMVHPVWTEGS
GVFPDPCEEQNPLKPDPAIVKAMGHIGFQAQDIEDSLRQRKFNQTMASYCLLKKQILKECDRPRTRPVN
PSVTPFPSLVDTATRLGLRRRENEPTCPWSSANRQVSVCCKSTSKKRDRRVSWSVLGRPRHTAPTMDH
TRTRTRSVPICSMFCTVQPNSSSEESTQGHTRASAADKPVHSRGWPRGKIGWTRMIGNAMRKLCCCIPSK
ETSHLGQNRVSPKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039889

ORF Size: 1512 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).

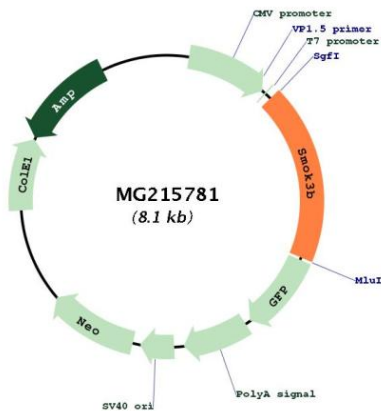
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_001039889.2](#)

RefSeq Size: 2333 bp

RefSeq ORF:	1515 bp
Locus ID:	622474
UniProt ID:	<u>C0HKC9</u>
Cytogenetics:	5 G2
Gene Summary:	May play a role in sperm motility, especially in the regulation of flagellar function. [UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG215781