

Product datasheet for **MG215332**

Smok2b (NM_001167913) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Smok2b
Synonyms:	Gm1847; Smok+129
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG215332 representing NM_001167913
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAAATTTTCATGCTCAATACGTGATGCTAGAGACTATCGGACATGGAGGCTGCTCAAGGTGATGC
 TGGCCCGGCATCGCCTCACAGGCTCCCATGTGGCTGTCAAATGATTCGAAAGAGTGAGTGTGGTGCAA
 TCCTGTGATGCTGAGGTAGAGTTACTGATGATGGCCGATCATCCGAATATCATCTCTCTCCTTCAAGTC
 ATTGAGACCAAGAAGAAAGTATACCTCATTATGGAGTTGTGTGAGGGTAAATCACTTTACCAACACATCA
 GAAACGCTGGCTACCTGCAGGAGGATGAAGCACGAGCATTATTCAAGCAGCTCTTAAGTGCTATGAATA
 CTGCCACAACCAGGGTATAGTTCACAGGGACCTGAAACCTGACAATATTATGGTAGAAAAAGATGGAAAA
 GTGAAGATCATTGATTTTGGACTCGGAACCAAGTGAAGCCAGGGCAAAAACTAAACTTATTCTGTGGGA
 CTTACCCATTTAGTGCTCCTGAGGTGCTCCTTAGCAGACCCTATGATGGCCCAAGATCGATGTATGGAC
 TCTTGGAGTTGTGTATATTTTATGGTAACTGGAAGGTCCCGTTTGTGCTGCCAGCATACAAAAGCTG
 GTAAGGCAATTTTGGCAGGGAAGTATTTTGTCCCTCTAGACTGTCTGTAGAGCTCCGAGATCTGATTA
 GTCTTTTAAATGACGGCCAAACCCAACTTAGGCCCACTGTTGCTGAAGTTATGGTGCATCCCTGGGTCAC
 AGAAGGCTCAGGGGTGTTCCAGATCCTTGTGAAGAACAGATGCCCTCAAGCCAAACCTGCGATTGTA
 AAAGCAATGGGATATATCGGGTTCCAAGCTCAAGACATTGAAGATTCTTTACGTCAGAGAAAATTAACG
 AAACCATGGCATCTTATTGTCTACTGAAAAACAGATTCTTAAGGAATGTGACAGGCCAATCCGGGCTCA
 GCCCATGAATCCATCGGTGACCCCATTCCTTCCCTTGTGATACTTCTACTTTCCATCTTGGACTTCGG
 AGGAGAGAGACTGAACCCAGAGTCTCAGATTATCTGCCAATAGGCCAAATGTCTGTCTGTGGAAGGAGTA
 CTAGTAAGAAAAGAGACAGAAGATTCAGTTGGCCAGTGTTCGGCAGGCCACTCCACACAACACACAC
 AATGGACCACACACACCCGTAAGGAGTGTCCCTGCATTTACTCAATGTTTTGCACAATACAGCCA
 AACAGCAGTGATGACAGTACAGAAGGCCACACCAGTGCCTCAGCAGAGGATAAGCCTGTCCGCAGCAGGG
 GCTGGCCAGAGGCATCAAGGGCTGGACTAGGAAGATAGGAAATGTGATGAGGAAGCTCTGTTGCTGTAT
 CCCATCAAAAGAGACATCTCACGTGGGCACAGTAGAGTCTCCCCAAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215332 representing NM_001167913
 Red=Cloning site Green=Tags(s)

MENFHAQYVMLETIGHGGCSKVMLARHRLTGSHVAVKMIKSECWCNPVMSEVELLMADHPNIIISLLQV
 IETKKKYYLIMELCEGSLYQHIRNAGYLQEDEARALFKQLLSAMNYCHNQGIVHRDLKPDNIMVEKD GK
 VKIIDFGLGTQVKPGQKLNLCFTYPPSAPEVLLSRPYDGPKIDVWTLGVVLYFMVTKVVPFDAASIQKL
 VRQILAGKYFVPSRLSVELRDLISLLMTANPKLRPTVAEVMVHPWVTEGSGVFPDPCEEQMP LKPNPAIV
 KAMGYIGFQAQDIEDSLRQRKFNETMASYCLLKKQILKECDRPIRAQPMNPSVTPFPSLVDSTFHLGLR
 RRETEPTSLRLSANRQMSVCGRSTSKKRDRRFSWPSVSGRPLHTHTMDHTHTRTRSVPCIYSMFCTIQP
 NSSDDSTEGHTSASAEDKPVRSRGWPRGIKGWTRKIGNVMRKLCCCIPSKETSHVGHSRVSPKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001167913

ORF Size: 1452 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:

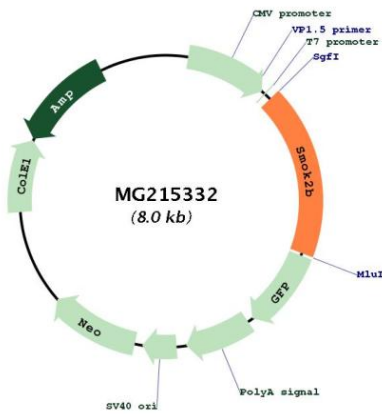
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001167913.2](#), [NP_001161385.1](#)

RefSeq Size:	1584 bp
RefSeq ORF:	1455 bp
Locus ID:	236574
UniProt ID:	Q9QYZ3
Cytogenetics:	17 A1
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 MG215332