

Product datasheet for **MR215332**

Smok2b (NM_001167913) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Smok2b
Synonyms:	Gm1847; Smok+129
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR215332 representing NM_001167913
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAATTTTCATGCTCAATACGTGATGCTAGAGACTATCGGACATGGAGGCTGCTCAAGGTATGC
 TGGCCCGGCATCGCCTCACAGGCTCCCATGTGGCTGTCAAAATGATTCGAAAGAGTGAGTGTGGTGCAA
 TCCTGTGATGTCTGAGGTAGAGTTACTGATGATGGCCGATCATCCGAATATCATCTCTCTCTTCAAGTC
 ATTGAGACCAAGAAGAAAGTATACCTCATTATGGAGTTGTGTGAGGGTAAATCACTTTACCAACACATCA
 GAAACGCTGGCTACCTGCAGGAGGATGAAGCAGAGCATTATCAAGCAGCTCTTAAGTGCTATGAACTA
 CTGCCACAACCAGGGTATAGTTACAGGGACCTGAAACCTGACAATATTATGGTAGAAAAAGATGGAAAA
 GTGAAGATCATTGATTTTGGACTCGGAACCAAGTGAAGCCAGGGCAAAAACTAACTTATTCTGTGGGA
 CTTACCCATTTAGTGCTCCTGAGGTGCTCCTTAGCAGACCCTATGATGGCCCAAGATCGATGTATGGAC
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 AAACCATGGCATCTTATTGTCTACTGAAAAAACAGATTCTTAAGGAATGTGACAGGCCAATCCGGGCTCA
 GCCCATGAATCCATCGGTGACCCCATTCCTTCCCTTGTGATACTTCTACTTTCCATCTTGGACTTCGG
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 AATGGACCACACACACCCGTAAGGAGTGTTCCTGCATTTACTCAATGTTTTCACAATACAGCCA
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 GCTGGCCAGAGGCATCAAGGGCTGGACTAGGAAGATAGGAAATGTGATGAGGAAGCTCTGTTGCTGTAT
 CCCATCAAAAGAGACATCTACGTGGGGCACAGTAGAGTCTCCCCAAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR215332 representing NM_001167913
 Red=Cloning site Green=Tags(s)

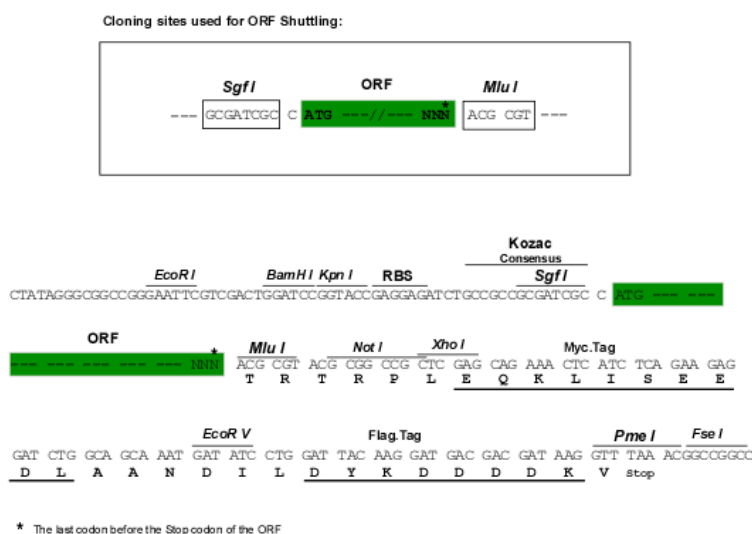
MENFHAQYVMLETIGHGGCKVMLARHRLTGSVAVKMIKSECWCNPVMSEVELLMADHPNIIISLLQV
 IETKKKVYLIMELCEGKSLYQHIRNAGYLQEDEARALFKQLLSAMNYCHNQGI VHRDLKPDNIMVEKD GK
 VKIIDFGLGTQVKPGQKLNLF CGTYPFSAPEVLLSRPYDGPIDVWTLGVVLYFMVTGKVPFDAASIQKL
 VRQILAGKYFVPSRLSVELRDLISLLMTANPKLRPTVAEVMVHPWVTEGSGVFPDPCEEQMLKPNPAIV
 KAMGYIGFQAQDIEDSLRQRFNETMASYCLLKKQILKECDRPIRAQPMNPSVTPFSLVDTSTFHLGLR
 RRETEPTSLRLSANRQMSVCGRSTSKKRDRRFSWPSVSGRPLHTHTMDHTHTRRSVPCISMFCTIQP
 NSSDDSTEGHTSASAEDKPVRSRGWPRGIKGWTRKIGNVMRKLCCCIPSKETSHVGHRSRVSPKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9082_b11.zip

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.

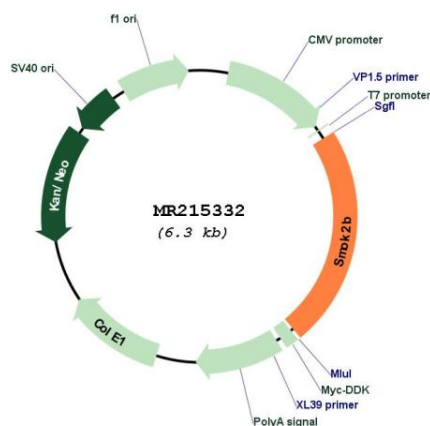
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22µm filter is required.

RefSeq: [NM_001167913.2](#), [NP_001161385.1](#)

RefSeq Size: 2305 bp

RefSeq ORF:	1455 bp
Locus ID:	236574
UniProt ID:	Q9QYZ3
Cytogenetics:	17 A1
MW:	54.7 kDa
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 MR215332