

Product datasheet for MR211523

Smarca1 (NM_053123) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smarca1 (NM_053123) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smarca1
Synonyms:	5730494M04Rik; Snf2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211523 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGACCGCCACAGAGGCAGCCACCGTGGCAGTTTCGGATGCCAGAGCCACAGTCGTGGTTG
TAGAGGATGAGCAGCCCGGGCCGTCCACCTTTAAAGAGGAGGGAGCGGCTGCTGCCGCCACCGAAGGCAC
CACGGCCACTGAGAAGGGCGAGAAGAAGGAGAAAACTACTTCTCCATTTCAACTCAAACCTGCTGCTAAA
GCTTCAAATCTGAAAAGGAAATGGATCCAGAATATGAAGAGAAAATGGTAAATATGCCCTTGAAAGCAG
ACCGCGCAAAGAGATTTGAGTTTTACTGAAGCAGACGGAACCTTTTGCACATTTCAATTCAGCCTTCAGC
ACAGAAGTCTCCAACATCTCCTCTCAACATGAACTGGCTCGTCCCTCGAGTAAAGAAAGATGACAAGCAG
AGCTTGATTTCCGTTGGAGACTATCGCCACAGGCGTACAGAACAAGAAGAGGATGAGGAGCTTCTCTCAG
AGAGTAGGAAAACATCGAATGTGTGTGTGAGATTCGAGGTCTCCCTTCTATGTGAAAGGAGGACCGCT
GAGAGATTATCAGATCCGAGGACTAAACTGGTTGATTTCTTTGTATGAAAATGGAGTCAATGGTATTTTA
GCTGATGAAATGGGTCTTGGGAAGACTTACAACCATTGCCCTTGCTTGGTTACCTGAAGCACTACAGAA
ACATTCCTGGACCCACATGGTTTTAGTCCCAAGTCTACTTTACATAACTGGATGAATGAATTTAAACG
ATGGGTTCCATCTCTCCGTGTTATTTGTTTCGTTGGAGACAAAGATGTGAGAGCAGCTTTTATTCGTGAT
GAAATGATGCCAGGAGAGTGGGATGTTTGGTGACTTCTTATGAGATGGTAATTAAGAAAAATCTGTGT
TTAAAAAGTTTTCACTGGCGATACTTAGTCATCGATGAAGCTCACAGAATAAAAAATGAAAAATCTAAGCT
TTCAGAGATTGTTCTGTGAGTTCAAGTCAACTAATCGCTTACTTCTAACTGGGACACCTTTGCAGAATAAC
TTGCATGAGCTCTGGCATTACTTAATTTTTATTGCCGGATGCTTTAATTCTGCAGATGACTTTGATT
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CTTCTGGCAAGATGGACAAGATGCGACTCTTGAATATTCTGATGCAGCTCCGAAAGTGTGTAATCATCC
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AAAATGGTCGCTCTGGATAAGCTATTGGCGAGAATTAAGAACAGGGATCAAGAGTTCTCATCTTTAGCC
 AGATGACTCGACTGTTAGACATTTTGGAGGATTATTGTATGTGGCGTGGTTATGAGTATTCTCGACTGGA
 TGGACAAACCCACATGAAGAAAGAGAGGAAGCGATAGATGCCTTCAATGCTCCAATAGCAGCAAATTC
 ATCTTTATGCTGAGTACTAGGGCTGGAGGACTCGGAATTAAC TTGGCAAGTGCTGATGTGGTCATCTAT
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 TTCAGAGACGCTGTAATACTTTGATTTTCATTGATTGAAAAAGAAAAATATGAAAATTGAGGAAAGAGAGAG
 AGCAGAAAAAGAAGAACGGGCAACTAAAAC TCCAATGGTAAAATTTTCAGCATTTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211523 protein sequence
 Red=Cloning site Green=Tags(s)

MEPDTATEAATVAVSDARATVVVVEDEQPGPSTFKEEGAAAAATEGTTATEKGEKKEKITSPPFLKLA
 ASKSEKEMDPEYEEKMVNMLKADRKRFEFLKQTELF AHFIQPSAQKSPTSPLNMKLARPRVKKDDKQ
 SLISVGDYRHRRTQEED ELLSESRKTSNVCVRFVSPSYVKGGLRDYQIRGLNWLISLYENGVNGIL
 ADEMGLGKTLQTIALLGYLKHYRNIPGPHMVLVPKSTLHNMNFKRWVPSLRVICFVGDKDVRAAFIRD
 EMMPGEWDVVCVTSYEMVIKEKSVFKFHWRYLVIDEAHRKNEKSKLSEIVREFKSTNRLLLTGTP LQNN
 LHELWALLNLLPDVFN SADD FDSWFDTKNCLGDQKLVERLHAVLKPFLRRRIKTDVEKSLPPKKEIKIY
 LGLSKMQREWYTKILMKDIDVLNSSGKMDKMRLLNILMQLRKCCNHPYLF DGAEPGPYTTDEHIVGNSG
 KMVALDKLLARIKEQGSRLIFSQMTRLLDILEDYCMWRGYEYSRLDGQTPHEEREEAIDAFNAPNSSKF
 IFMLSTRAGGLGINLASADVILYDSWNPQVDLQAMDRHRIGQKPVVFRLLITDNTVEERIVERAEI
 KLRLDSIVIQQGRLIDQQSNKLAKEEMLQIRHGATHVFACKESLTDIEDIVTILERGEKKAEMNERMQ
 KMGESSLRNFRMDLEQSLYKFEGEDYREKQKLGTVIEWIEPPKRRERKANYAVDAYFREARVSEPKIPKAP
 RPPKQPNVQDFQFFPRLFELLEKEILYRKTIGYKVP RNPEIPNPAIAQREEQKIDGAEPLTPQETEE
 KDKLLTQGFNTWK RDFNQFIKANEKYGRDDIDNIAREVEGKSPEEVMESAVFWERCNELQDIEKIMAQ
 IERGEARIQRRI SIKKALDAKIARYKAPFHQLRIQYGTSGKKNYTEEDRFLICMLHKMGFDRENVYEEL
 RQCVRNAPQFRFDWFIKSRTAMEFQRRCNTLISLIEKENMEIEERERA EKKKRATKTPMVKFSAFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_053123

ORF Size: 3141 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.

RefSeq: [NM_053123.5](#)

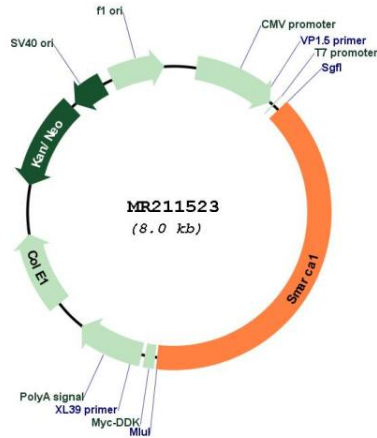
RefSeq Size: 4055 bp

RefSeq ORF: 3141 bp

Locus ID: 93761

UniProt ID: [Q6PGB8](#)
 Cytogenetics: X A4
 MW: 121.7 kDa
 Gene Summary: Energy-transducing component of the NURF (nucleosome-remodeling factor) and CERF (CECR2-containing-remodeling factor) complexes, which facilitate the perturbation of chromatin structure in an ATP-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211523