

## Product datasheet for **MG211523**

### Smarca1 (NM\_053123) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smarca1 (NM_053123) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smarca1
Synonyms:	5730494M04Rik; Snf2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211523 representing NM_053123 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCGGACCGCCACAGAGGCAGCCACCGTGGCAGTTTCGGATGCCAGAGCCACAGTCGTGGTTG  
TAGAGGATGAGCAGCCCGGGCCGTCACCTTTAAAGAGGAGGGAGCGGCTGCTGCCGCCACCGAAGGCAC  
CACGGCCACTGAGAAGGGCGAGAAGAAGGAGAAAATCACTTCTCCATTTCAACTCAAACCTGCTGCTAAA  
GCTTCAAATCTGAAAAGGAAATGGATCCAGAATATGAAGAGAAAATGGTAAATATGCCCTTGAAAGCAG  
ACCGCGCAAAGAGATTTGAGTTTTACTGAAGCAGACGGAACCTTTTGCACATTTCAATTCAGCCTTCAGC  
ACAGAAGTCTCCAACATCTCCTCTCAACATGAAACTGGCTCGTCCCTCGAGTAAAGAAAGATGACAAGCAG  
AGCTTGATTTCCGTTGGAGACTATCGCCACAGGCGTACAGAACAAGAAGAGGATGAGGAGCTTCTCTCAG  
AGAGTAGGAAAACATCGAATGTGTGTGTGAGATTCGAGGTCTCCCTTCTATGTGAAAGGAGGACCGCT  
GAGAGATTATCAGATCCGAGGACTAAACTGGTTGATTTCTTTGTATGAAAATGGAGTCAATGGTATTTTA  
GCTGATGAAATGGGTCTTGGGAAGACTTACAAACCATTGCCCTTGCTTGGTTACCTGAAGCACTACAGAA  
ACATTCCTGGACCCACATGGTTTTAGTTCCCAAGTCTACTTTACATAACTGGATGAATGAATTTAAACG  
ATGGGTTCCATCTCTCCGTGTTATTTGTTTCGTTGGAGACAAAGATGTGAGAGCAGCTTTTATTCGTGAT  
GAAATGATGCCAGGAGAGTGGGATGTTTGGTGACTTCTTATGAGATGGTAATTAAGAAAAATCTGTGT  
TTAAAAAGTTTCACTGGCGATACTTAGTCATCGATGAAGCTCACAGAATAAAAAATGAAAAATCTAAGCT  
TTCAGAGATTGTTCTGTGATTCAAGTCAACTAATCGCTTACTTCTAACTGGGACACCTTTGCAGAATAAC  
TTGCATGAGCTCTGGCATTACTTAATTTTTATTGCCGGATGCTTTAATTCTGCAGATGACTTTGATT  
CTTGGTTTGACACTAAAAATTGCCTTGGTGATCAAAGCTTGTGGAAAGACTCCATGCAGTTTTAAACCC  
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TTGGCCCTGAGTAAAATGCAACGAGAATGGTATACAAAAATTCTGATGAAAGATATTGATGTCTTAAACT  
CTTCTGGCAAGATGGACAAGATGCGACTCTTGAATATTCTGATGCAGCTCCGAAAGTGTGTAATCATCC  
TTATCTGTTTGTGAGCAGAGCCTGGTCCACCTTATACGACAGATGAGCACATTGTCGGCAATAGTGGT



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AAAATGGTCGCTCTGGATAAGCTATTGGCGAGAATTAAGAACAGGGATCAAGAGTTCTCATCTTTAGCC  
 AGATGACTCGACTGTTAGACATTTTGGAGGATTATTGTATGTGGCGTGGTTATGAGTATTCTCGACTGGA  
 TGGACAAACCCACATGAAGAAAGAGAGGAAGCGATAGATGCCTTCAATGCTCCAATAGCAGCAAATTC  
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 CAACTATGCAGTGGATGCCTACTTTAGAGAGGCTTTACGTGTGAGCGAGCCAAAGATCCCAAAGGCTCT  
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 GATACAAGGCTCCATTTTCATCAGTTGCGTATTGAGTATGGAACCAAGTAAAGGAAAGAACTATACTGAAGA  
 GGAAGACAGATTCTTGATCTGTATGTTACAAAAATGGGTTTTGACAGAGAAAAATGATATGAAGAATTA  
 AGGCAGTGTGTACGGAATGCTCCCAAGTTAGATTTGACTGGTTCATCAAGTCGAGAAGTCCCATGGAAT  
 TTCAGAGACGCTGTAATACTTTGATTTTCATTGATTGAAAAAGAAAAATATGAAATTGAGGAAAGAGAGAG  
 AGCAGAAAAAGAAGAACGGGCAACTAAAACCTCAATGGTAAAATTTTCAGCATTTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211523 representing NM\_053123  
 Red=Cloning site Green=Tags(s)

MEPDTATEAATVAVSDARATVVVVEDEQPGPSTFKEEGAAAAATEGTTATEKGEKKEKITSPPFLKLA  
 ASKSEKEMDPEYEEKMVNMLPKADRAKRFELLLKQTELFHF IQPSAQKSPTSPLNMKLARPRVKDDKQ  
 SLISVGDYRHRTEQEEDDELLSESRTSNVCFEVSFVYKGGPLRDYQIRGLNWLISLYENGVNGIL  
 ADEMGLGKTLQTIALLGYLKHYRNIPGPHMVLVPKSTLHNWNEFKRWVPSLRVICFVGDKDVRAAFIRD  
 EMMPGEDVVCVTSYEMVIKEKSVFKFHWRYLVIDEAHRIKNEKSKLSEIVREFKSTNRLLLTGTPNQNN  
 LHELWALLNLLPDVFN SADD FDSWFDTKNCLGDQKLVERLHAVLKPFLRRRIKTDVEKSLPPKKEIKIY  
 LGLSKMQREWYTKILMKDIDLNSGKMDKMRLLNILMQLRKCCHPYLFDGAEPGPYTTDEHIVGNSG  
 KMVALDKLLARIKEQGSRLIFSQMTRLLDILEDYCMWRGYEYSRLDGQTPHEEREEAIDAFNAPNSKF  
 IFMLSTRAGGLGINLASADVILYDSWNPQVDLQAMDRAHRIGQKPKVRFVRLITDNTVEERIVERAEI  
 KLRLDSIVIQQGRLIDQQSNKLAKEEMLQIRHGATHVFAKESLTDIEDIVTILERGEKKAETMERMQ  
 KMGESSLRNFRMDLEQSLYKFEGEDYREKQKLGTVIEWIEPPKRERKANYAVDAYFREARVSEPKIPKAP  
 RPPKQPNVQDFQFFPRLFELLEKEILYRKTIGYKVPNPEIPNPAIAQREEQKIDGAELTPQETEE  
 KDKLLTQGFNTWTKRDFNQFIKANEKYGRDDIDNIAREVEGKSPEEVMESAVFWERCNELQDIEKIMAQ  
 IERGEARIQRRISSIKKALDAKIARYKAPFHLRIQYGTSGKKNYTEEDRFLICMLHKMGFDRENVYEEL  
 RQCVRNAPQFRFDWFIKSRTAMEFQRRCNTLISLIEKENMEIEERERAEEKKRATKTPMVKFSAFS

TRTRPLE - GFP Tag - V

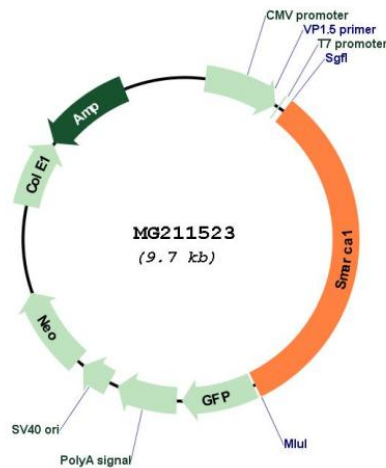
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053123

ORF Size: 3138 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_053123.5</a>
<b>RefSeq Size:</b>	4022 bp
<b>RefSeq ORF:</b>	3141 bp
<b>Locus ID:</b>	93761
<b>UniProt ID:</b>	<a href="#">Q6PGB8</a>
<b>Cytogenetics:</b>	X A4
<b>Gene Summary:</b>	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]