

Product datasheet for **RG226769**

SRRM5 (NM_001145641) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SRRM5
Synonyms:	ZNF576
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG226769 ORF sequence, **codon optimized**.

Due to the complexity of NM_001145641, the ORF clone is codon optimized for mammalian Expression.

The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGCAGTCCAAAACGAAGCAGCAAGCCTAGCATGAGTCTGGCCCCATCTGGCAGTAGCATGCCACAG
CAGACCCTAAGCCCCCGCATCCCTGAAGTCCACAAAAGCGCTACTCCTAACCGCAGCCTCGTCCAC
CAAGCCAGCTACCAGCAGAAATTTGTGATGAGTCCATCTTCATCTAAATCTACGAAATCCACGAGTACA
AAGAGAGCACCATCAATAGACCTTCAAGTAGAAGCAGGGTTCGGTCCAAGGCACGCACACCGTCTCGCG
TATCCACGGATACAAGGACAAGTAAGGCCAGTAAAGCCAGTGATGTGCGATGTACCAAAGGAGGGGCAC
CCACTACGCGGGCGCACACCAGGGAGGCGCGCAGCCGCTCTAGTAAGAGAAGCCCAAGCAGAGCGAGC
ACACCCGGTCTGAATTAGGACTCACGGCGCCAGGCTGGCATGGCCTCACGGGTGCGAACCCCTACCAGCC
AACAGAAAGGCTCCAGAGGTAAGTCTTACGGTCGGCCGCGCACGTCCAACAGAGAGCGGAGCGATAGCCA
GCCAAGAACTTGTCCAAAAAAGCTATCGCCCCCAGGCGGTTCCGGAATTGGACGGAGCTCCGAACTG
GCCGTGACACCAAGCACTGCCAAGTGTAGACCCCACTGGCATACCTCCAAAGAGAAATCAGATAATC
CATCCCATCAAGCAGTAGGAAAGTAAATCCTACGGCCAGATGATAATTCCTTCTCGGGAGAAATCTTA
CTCCCCAAGTGAATGTCCAGCCGCTCAAATCTTATAATCAGGCGAGCACCCGAGCGCCCTCAATCC
CACAGTCAGTCCCGCAGCCCTCGCCGAGTAGGAGCGGCTCACAGAAGCGCACTCATAGCCGCGTTAGAT
CACATTCCTGAAAAGGAATCAGATCGGGCTAGGTCCCGGACGAGAAAAGGCATCCTTAGCCAGATGGG
CCGCCACTCTCAAAGCAGGTCCCACTCCAGGGTAAGTCACAGAATCAGTCCAGAACGCCTAGGCGGGGG
CGATCCCATAACTGGTCTAGAAACCTTCCAAGGAGAGGTCCCACTCACACTCTCGCTCCAGCTCCAAGG
AGCGCGACCACAGAGGTTCTTCTTCAACCCGCAAGAATCAGGAAGGAGTCAGTCAGGATCTCCTAACAA
ACAGCGAGATCATTCAAGGAGCCGAGTCCCAACAAGGCACGGGATAGAAGCCGAGCCGAAGTCCGTAC
AAAGCGCGGACCGGTCTAGGAGCCGAGCCCAACAAGCCAGGGACTGCTCCCGAAGCAGATCACCTT
ACAAAGCCCGAGATCGCTCCAGTCCCGATCTCCCAACAAGGCTCGGGACCATAGTAGATCCCGCAGTCC
AAATAAGGCTAGAGACAGGAGTAGAAGCAGGAGCCCGTCCAAAGAACGGGATCATTCCAGTTGGGGTCC
CCTTCTAAGGAACGCGATCACAGAAGGAGTCGCTCTCCCTCTAAAGAGAGGAGTGCAGACAGAGCCGAT
CTAGCTCTAAGGAGAGGGACCATAGAAGGTCTAGATCCCCAAGCAAGAGAGACAGAGAAGCAAAAGTCG
AAGTCTTAATAAGAACGCGACCGATCTCAGTCACGCTACCCAGCGAGGAGAGGGAGCACCGCCAAAGT
CGGTCCCCCAGCAAGGAAAGGACCGCGCGATGGCGGTCCCCATCCAAAGAAAGGAGCGGAGGCAAT
CCAGATCAAGTAGCGAGGAGAGAGATCATTCCCGGTCACGATACCCAATAAACAGAGTGGCTATAGTCG
GCCTAGGGCGTCAAGCAAGAGAAGGCACACAGCCGAGCCGCACTCCAGCAAGGAGGGCAATCACTCC
CAGAGCAGAACTTCTCTAAAGAGTCTGACCCCTCACAGTCCACTGTTCCGCGATCTCTGACTGGAAGA
GGAGCCCTACAAGGACATCATCCCTGTCTCAGAACCGCACACCCTCCAAGACATCATCACATTCCCCGAG
CACTTTCCCATCCGAGGCCAGACTCTCAGTCAGGATGATAGCCAGGCAGATGCTACTACCTCTAAGGCT
ACTCTCCAGGGGAGCGGAGCTCCAGCTCCAGTAGTAACTGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

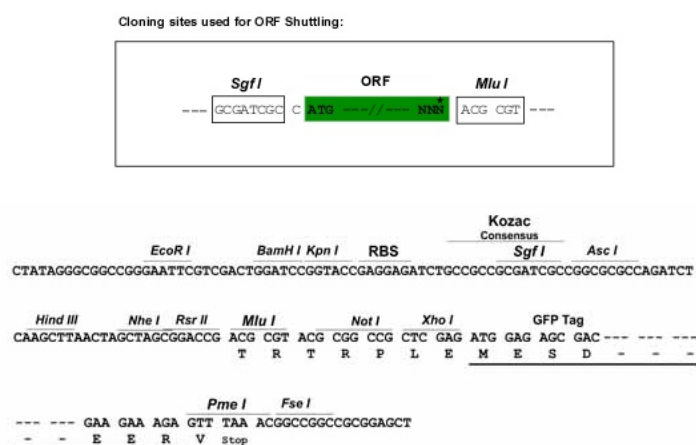
Protein Sequence: >RG226769 representing NM_001145641
Red=Cloning site Green=Tags(s)

MSSPKRSSKPSMSLAPSGSSMPTADPKPPASLKSTKSATPNRSLVPTKPATSRNSVMSPPSSSKSTKSTST
 KRAPSNRPSSRSRVRKARTPSRVSTDTRTSKASKASDVRCHQRRGTHSRGRTPGRRGRSSSKRSPSRAS
 TPGRIRTHGARPGMASRVRTPTSQQKGSRGKSYGRPRTSNRERDSQPRNLKKSYRPPGGSGIGRSSEL
 AVTPSTAKCQTPTGIPSPKEKSDNPSPSSSRKVSKYQGMIIPSREKSYSPTMESRVKSYNQASTRSRPQS
 HSQSRSPRRRSRSGSQKRTHSRVRSWSKRNHRSARSRTRKGLT SQMGRHSQSRSHKSGKSQNGSRTPRRG
 RSHNWSRNPSEKRSRSHSRSSSKERDHRGSSSPRKEGSRSGSGSPNKQRDHSRSPNPKARDRSRSPY
 KARDRSRSPNPKARDCSRSPSPYKARDRSRSPNPKARDHSRSPNPKARDRSRSPSKERDHSQGLGS
 PSKERDHRRSRSPSKERQCRQSRSSSKERDHRRSRSPSKERQRRQSRSPNPKERDRSQSRSPSEEREHRQS
 RSPSKERDRRRWRSPSKERERRQSRSSSEERDHSRSPNPKQSGYSRPRASSKEKAHSRRTPSKEGNHS
 QKRTSSKESDPSQSTVPRSPDWKRSPTRTSSL SQNRTPSKTSRSHSPSTFPGGQTL SQDDSQADATTSKA
 TLPGRSSSSSKSLA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145641

ORF Size: 2145 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_001145641.1](#), [NP_001139113.1](#)

RefSeq Size: 2415 bp

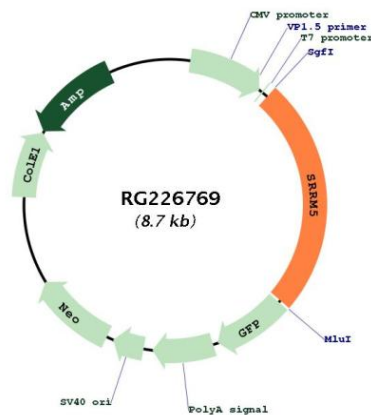
RefSeq ORF: 2148 bp

Locus ID: 100170229

UniProt ID: [B3KS81](#)

Cytogenetics: 19q13.31

Product images:



Circular map for RG226769