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Product datasheet for RG226769

SRRM5 (NM_001145641) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRRM5 (NM_001145641) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SRRM5
Synonyms:	ZNF576
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCAGTCCAAAACGAAGCAGCAAGCCTAGCATGAGTCTGGCCCCATCTGGCAGTAGCATGCCCACAG
CAGACCCTAAGCCCCCCGCATCCCTGAAGTCCACAAAAAGCGCTACTCCTAACCGCAGCCTCGTGCCCAC
CAAGCCAGCTACCAGCAGAAATTCTGTGATGAGTCCATCTTCATCTAAATCTACGAAATCCACGAGTACA
AAGAGAGCACCATCAAATAGACCTTCAAGTAGAAGCAGGGTTCGGTCCAAGGCACGCACACCGTCTCGCG
TATCCACGGATACAAGGACAAGTAAGGCCAGTAAAGCCAGTGATGTGCGATGTCACCAAAGGAGGGGCAC
CCACTCACGCGGGCGCACACCAGGGAGGCGCGGCAGCCGCTCTAGTAAGAGAAGCCCAAGCAGAGCGAGC
ACACCCGGTCGAATTAGGACTCACGGCGCCAGGCCTGGCATGGCCTCACGGGTGCGAACCCCTACCAGCC
AACAGAAAGGCTCCAGAGGTAAGTCTTACGGTCGGCCGCGCACGTCCAACAGAGAGCGGAGCGATAGCCA
GCCAAGAAACTTGTCCAAAAAAAGCTATCGCCCCCCAGGCGGTTCCGGAATTGGACGGAGCTCCGAACTG
GCCGTGACACCAAGCACTGCCAAGTGTCAGACCCCCACTGGCATACCCTCCAAAGAGAAATCAGATAATC
CATCCCCATCAAGCAGTAGGAAAGTAAAATCCTACGGCCAGATGATAATTCCTTCTCGGGAGAAATCTTA
CTCCCCAACTGAGATGTCCAGCCGCGTCAAATCTTATAATCAGGCGAGCACCCGGAGCCGCCCTCAATCC
CACAGTCAGTCCCGCAGCCCTCGCCGGAGTAGGAGCGGCTCACAGAAGCGCACTCATAGCCGCGTTAGAT
CACATTCCTGGAAAAGGAATCACAGTCGGGCTAGGTCCCGGACGAGAAAAGGCATCCTTAGCCAGATGGG
CCGCCACTCTCAAAGCAGGTCCCACTCCAAGGGTAAGTCACAGAATCAGTCCAGAACGCCTAGGCGGGGG
CGATCCCATAACTGGTCTAGAAACCCTTCCAAGGAGAGGTCCCACTCACACTCTCGCTCCAGCTCCAAGG
AGCGCGACCACAGAGGTTCTTCTTCACCCCGCAAAGAATCAGGAAGGAGTCAGTCAGGATCTCCTAACAA
ACAGCGAGATCATTCAAGGAGCCGCAGTCCCAACAAGGCACGGGATAGAAGCCGCAGCCGAAGTCCGTAC
AAAGCGCGCGACCGGTCTAGGAGCCGCAGCCCAAACAAAGCCAGGGACTGCTCCCGAAGCAGATCACCTT
ACAAAGCCCGAGATCGCTCCAGGTCCCGATCTCCCAACAAGGCTCGGGACCATAGTAGATCCCGCAGTCC
AAATAAGGCTAGAGACAGGAGTAGAAGCAGGAGCCCGTCCAAAGAACGGGATCATTCCCAGTTGGGGTCC
CCTTCTAAGGAACGCGATCACAGAAGGAGTCGCTCTCCCTCTAAAGAGAGGCAGTGCAGACAGAGCCGAT
CTAGCTCTAAGGAGAGGGACCATAGAAGGTCTAGATCCCCAAGCAAAGAGAGACAGAGAAGACAAAGTCG
AAGTCCTAATAAAGAACGCGACCGATCTCAGTCACGCTCACCCAGCGAGGAGAGGGAGCACCGCCAAAGT
CGGTCCCCCAGCAAGGAAAGGGACCGCCGGCGATGGCGGTCCCCATCCAAAGAAAGGGAGCGGAGGCAAT
CCAGATCAAGTAGCGAGGAGAGAGATCATTCCCGGTCACGATCACCCAATAAACAGAGTGGCTATAGTCG
GCCTAGGGCGTCAAGCAAAGAGAAGGCACACAGCCGCAGCCGCACTCCCAGCAAGGAGGGCAATCACTCC
CAGAGCAGAACTTCCTCTAAAGAGTCTGACCCCTCACAGTCCACTGTTCCGCGATCTCCTGACTGGAAGA
GGAGCCCTACAAGGACATCATCCCTGTCTCAGAACCGCACACCCTCCAAGACATCATCACATTCCCCGAG
CACTTTCCCATCCGGAGGCCAGACTCTCAGTCAGGATGATAGCCAGGCAGATGCTACTACCTCTAAGGCT
ACTCTCCCAGGGGAGCGGAGCTCCAGCTCCAGTAGTAAACTGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

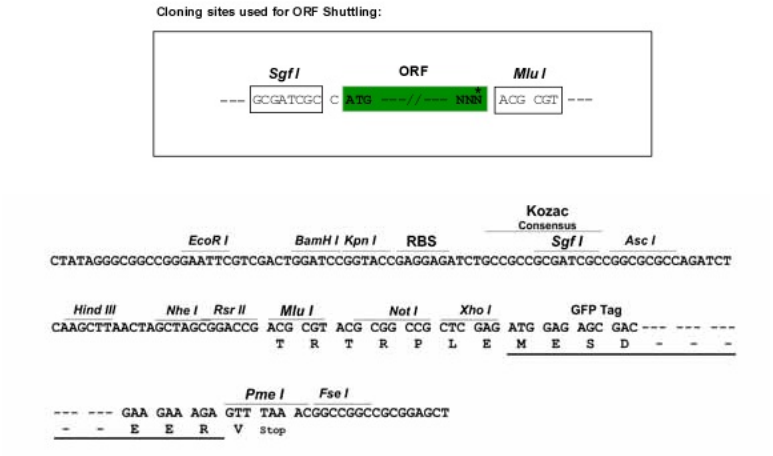
>RG226769 representing NM_001145641
Red=Cloning site Green=Tags(s)

MSSPKRSSKPSMSLAPSGSSMPTADPKPPASLKSTKSATPNRSLVPTKPATSRNSVMSPSSSKSTKSTST
KRAPSNRPSSRSRVRSKARTPSRVSTDTRTSKASKASDVRCHQRRGTHSRGRTPGRRGSRSSKRSPSRAS
TPGRIRTHGARPGMASRVRTPTSQQKGSRGKSYGRPRTSNRERSDSQPRNLSKKSYRPPGGSGIGRSSEL
AVTPSTAKCQTPTGIPSKEKSDNPSPSSSRKVKSYGQMIIPSREKSYSPTEMSSRVKSYNQASTRSRPQS
HSQSRSPRRSRSGSQKRTHSRVRSHSWKRNHSRARSRTRKGILSQMGRHSQSRSHSKGKSQNQSRTPRRG
RSHNWSRNPSKERSHSHSRSSSKERDHRGSSSPRKESGRSQSGSPNKQRDHSRSRSPNKARDRSRSRSPY
KARDRSRSRSPNKARDCSRSRSPYKARDRSRSRSPNKARDHSRSRSPNKARDRSRSRSPSKERDHSQLGS
PSKERDHRRSRSPSKERQCRQSRSSSKERDHRRSRSPSKERQRRQSRSPNKERDRSQSRSPSEEREHRQS
RSPSKERDRRRWRSPSKERERRQSRSSSEERDHSRSRSPNKQSGYSRPRASSKEKAHSRSRTPSKEGNHS
QSRTSSKESDPSQSTVPRSPDWKRSPTRTSSLSQNRTPSKTSSHSPSTFPSGGQTLSQDDSQADATTSKA
TLPGERSSSSSSKLA

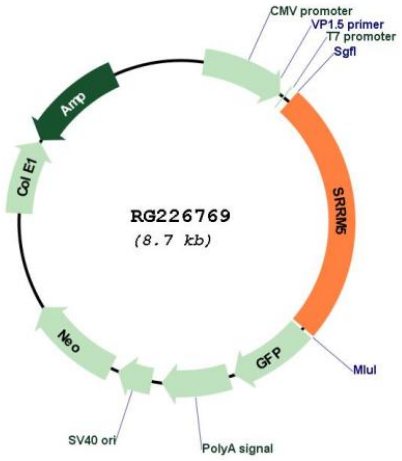
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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.
RefSeq:	NM_001145641.1, NP_001139113.1
RefSeq Size:	2415 bp
RefSeq ORF:	2148 bp
Locus ID:	100170229
UniProt ID:	B3KS81
Cytogenetics:	19q13.31