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Product datasheet for RG209411

SHFM3 (FBXW4) (NM_022039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SHFM3
Synonyms:	DAC; FBW4; FBWD4; SHFM3; SHSF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG209411 representing NM_022039
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCGGCCGGGGAGGAGGAGGAGGAGGAGGCGGCTCGGGAGTCGGCTGCCCGCCCGGCCG
CGGGGCCTGCGCTCTGGCGCCTGCCGGAGGAGCTGCTGCTGCTCATCTGCTCCTACCTGGACATGCGGGC
CCTCGGCCGCCTGGCCCAGGTGTGCCGCTGGCTGCGGCGCTTCACCAGCTGCGATCTGCTCTGGCGCCGG
ATAGCCCGGGCCTCGCTCAACTCCGGCTTCACGCGGCTCGGCACCGACCTGATGACCAGTGTCCCAGTGA
AGGAACGAGTGAAGGTGTCTCAGAACTGGAGACTGGGGCGCTGCCGAGAGGGGATTCTGCTGAAGTGGAG
ATGCAGTCAGATGCCCTGGATGCAGCTAGAGGATGATTCTCTGTACATATCCCAGGCTAATTTCATCCTG
GCCTACCAGTTCCGTCCAGATGGTGCCAGCTTGAATCGTCGGCCTCTGGGAGTCTTTGCTGGGCATGATG
AGGACGTTTGCCACTTTGTGCTGGCCAACTCGCATATTGTTAGTGCAGGAGGGGATGGGAAGATTGGCAT
TCATAAGATTCACAGCACCTTCACTGTCAAGTACTCGGCTCATGAACAGGAGGTGAACTGTGTGGATTGC
AAAGGGGGCATCATTGTGAGTGGCTCCAGGGACAGGACGGCCAAGGTGTGGCCTTTGGCCTCAGGCCGGC
TGGGGCAGTGCTTACACACCATCCAGACTGAAGACCGAGTCTGGTCCATTGCTATCAGCCCATTACTCAG
CTCTTTTGTGACAGGGACGGCTTGTTGCGGGCACTTCTCACCCCTGAGAATCTGGGACCTCAACAGTGGG
CAGCTGATGACACACTTGGGCAGTGACTTTCCCCCAGGGGCTGGGGTGCTGGATGTCATGTATGAGTCCC
CTTTCACACTGCTGTCCTGTGGCTATGACACCTATGTTCGCTACTGGGACCTCCGCACCAGCGTCCGGAA
ATGTGTCATGGAGTGGGAGGAGCCCCACGACAGCACCCTGTACTGCCTGCAGACAGATGGCAACCACCTG
CTGGCCACAGGTTCCTCCTACTACGGTGTTGTACGGCTGTGGGACCGGCGTCAAAGGGCCTGCCTGCACG
CCTTCCCGCTGACGTCGACTCCCCTCAGCAGCCCTGTGTACTGCCTGCGTCTCACCACCAAGCATCTCTA
TGCTGCCCTGTCTTACAACCTCCACGTCCTGGATTTTCAAAACCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

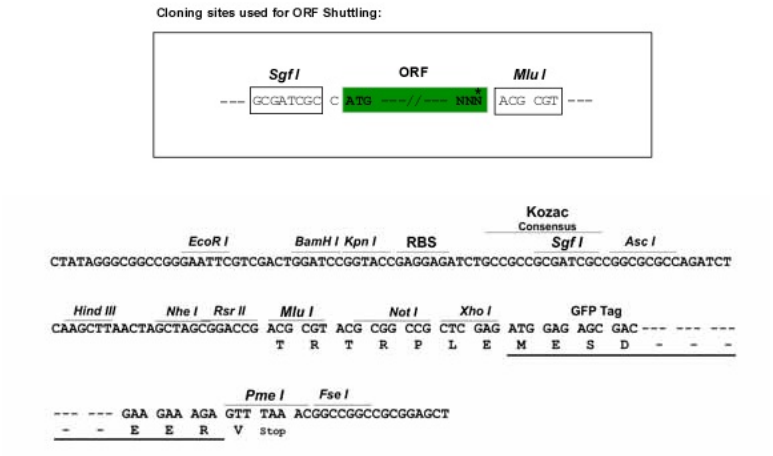
>RG209411 representing NM_022039
Red=Cloning site Green=Tags(s)

MAAAAGEEEEEEEAARESAARPAAGPALWRLPEELLLLICSYLDMRALGRLAQVCRWLRRFTSCDLLWRR
IARASLNSGFTRLGTDLMTSVPVKERVKVSQNWRLGRCREGILLKWRCSQMPWMQLEDDSLYISQANFIL
AYQFRPDGASLNRRPLGVFAGHDEDVCHFVLANSHIVSAGGDGKIGIHKIHSTFTVKYSAHEQEVNCVDC
KGGIIVSGSRDRTAKVWPLASGRLGQCLHTIQTEDRVWSIAISPLLSSFVTGTACCGHFSPLRIWDLNSG
QLMTHLGSDFPPGAGVLDVMYESPFTLLSCGYDTYVRYWDLRTSVRKCVMEWEEPHDSTLYCLQTDGNHL
LATGSSYYGVVRLWDRRQRACLHAFPLTSTPLSSPVYCLRLTTKHLYAALSYNLHVLDFQNP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022039

ORF Size: 1236 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).

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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_022039.3, NP_071322.1
RefSeq Size:	2303 bp
RefSeq ORF:	1704 bp
Locus ID:	6468
UniProt ID:	P57775
Cytogenetics:	10q24.32
Domains:	WD40, F-box
Protein Families:	Druggable Genome
Gene Summary:	This gene is a member of the F-box/WD-40 gene family, which recruit specific target proteins through their WD-40 protein-protein binding domains for ubiquitin mediated degradation. In mouse, a highly similar protein is thought to be responsible for maintaining the apical ectodermal ridge of developing limb buds; disruption of the mouse gene results in the absence of central digits, underdeveloped or absent metacarpal/metatarsal bones and syndactyly. This phenotype is remarkably similar to split hand-split foot malformation in humans, a clinically heterogeneous condition with a variety of modes of transmission. An autosomal recessive form has been mapped to the chromosomal region where this gene is located, and complex rearrangements involving duplications of this gene and others have been associated with the condition. A pseudogene of this locus has been mapped to one of the introns of the BCR gene on chromosome 22. [provided by RefSeq, Jul 2008]

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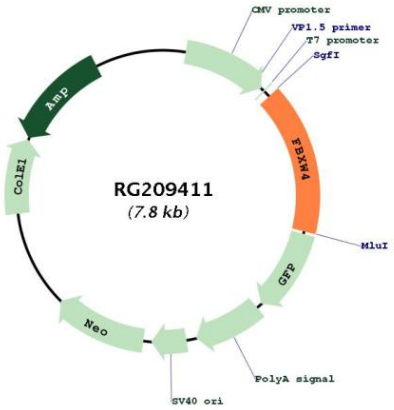
Product images:



Circular map for RG209411

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