

Product datasheet for **RG210744**

SMU1 (NM_018225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMU1 (NM_018225) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMU1
Synonyms:	BWD; fSAP57; SMU-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210744 representing NM_018225
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTCGATCGAAATCGAATCTTCGGATGTGATCCGCCTTATTATGCAGTACTTGAAGGAGAACAGTTTAC
 ATCGGGCGTTAGCCACCTTGCAGGAGGAGACTACTGTGTCTCTGAATACTGTGGACAGCATTGAGAGTTT
 TGTGGCTGACATTAACAGTGGCCATTGGGATACTGTGTCAGGTTATACAGTCTCTGAAATTGCCAGAC
 AAAACCTCATTGACCTCTATGAACAGGTTGTTCTGGAATTGATAGAGCTCCGTGAATTGGGTGCTGCCA
 GGTCACTTTTGGACAGACTGATCCCATGATCATGTTAAACAAACACAGCCAGAGCGATATATTCATCT
 GGAGAACCTTTTGGCCAGGTCTTACTTTGATCCTCGTGAGGCATACCCAGATGGAAGTAGCAAAGAAAAG
 AGAAGAGCAGCAATTGCCAGGCCTTAGCTGGCGAAGTCAGTGTGGTGCCTCCATCTCGTCTCATGGCAT
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 TCGAGGCAAGGCAGCTGTCAAAGATGTGGAAGAAGAAAAGTTTCTACACAAGTACGAGGCATATTAAG
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 CTGTTTCAGTACAGTCACTGGCAAAGTGGAGAGAACTTTGACAGTGCACGAGAAGGATGTGATTGGTATT
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

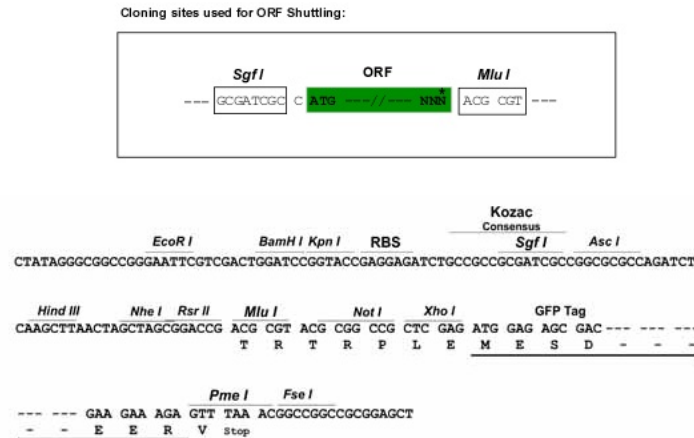
>RG210744 representing NM_018225
 Red=Cloning site Green=Tags(s)

MSIEIESSDVIRLIMQYLKENS LHRALATLQEETVSLNTVDSIESFVADINSGHWDTVLQVIQSLKLPD
 KTLIDL YEQVLELIELRELGAARSLLRQTDPMIMLKQTQPERYIHLENLLARSYFDPREAYPDGSSKEK
 RRAAIAQALAGEVSVPPSRLMALLGQALKWQHQLPPGMTIDLFRGKA AVKDVEEEKFPTQLSRHIK
 FGQKSHVECARFSPDGQYLV TGSVDGFI EVWNFTTGKIRKDLKYAQDNFMMDDAVLCMCFSRDTEMLA
 TGAQDGIKIVWKIQSGQCLRRFERAHSKGV TCLSFSKDSSQILSASFDTIRIHGLKSGKTLKEFRGHSS
 FVNEATFTQDGHYIISASSDGT VKIWNMKTTECSNTFKSLGSTAGTDITVNSVILLPKNPEHFVVCNRSN
 TVVIMNMQGQIVRSFSSGKREGGDFVCCALSPRGEWIYCVGEDFVLYCFSTVTGKLERLT TVHEKDVIGI
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TRTRPLE – GFP Tag – V

Restriction Sites:

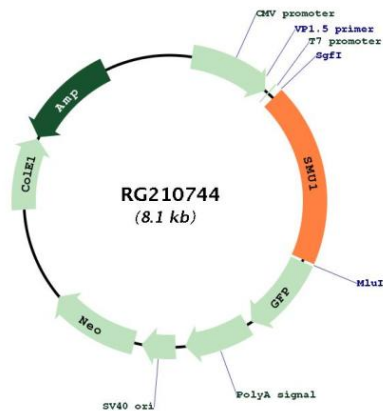
Sgfl-MluI

Cloning Scheme:


ACCN:	NM_018225
ORF Size:	1539 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_018225.2 , NP_060695.2
RefSeq Size:	7091 bp
RefSeq ORF:	1542 bp
Locus ID:	55234

UniProt ID:	<u>Q2TAY7</u>
Cytogenetics:	9p21.1
Domains:	WD40, LisH, CTLH
Gene Summary:	Involved in pre-mRNA splicing as a component of the spliceosome (PubMed:28781166). Regulates alternative splicing of the HSPG2 pre-mRNA (By similarity). Required for normal accumulation of IK (PubMed:24945353). Required for normal mitotic spindle assembly and normal progress through mitosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG210744