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Product datasheet for MG203864

Sumf1 (NM_145937) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sumf1 (NM_145937) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sumf1
Synonyms:	AA543204; AI463102; AI851573; FGE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG203864 representing NM_145937
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCCCATTCCTGCTGGAGTATTCACAATGGGCACTGATGATCCTCAGATCAGGCAGGATGGAGAAG
CCCCTGCCAGGAGAGTCACTGTTGATGGCTTTTACATGGACGCCTATGAAGTCAGCAATGCGGATTTTGA
GAAGTTTGTGAACTCGACTGGCTATTTGACAGAGGCTGAGAAGTTTGGAGACTCTTTCGTCTTTGAAGGC
ATGTTGAGCGAGCAAGTGAAAACGCATATCCACCAGGCAGTTGCAGCTGCTCCATGGTGGTTGCCTGTCA
AGGGAGCTAATTGGAGACACCCAGAGGGTCCGGACTCCAGTATTCTGCACAGGTCAAATCATCCGGTTCT
CCATGTTTCCTGGAACGATGCTGTTGCCTACTGCACATGGGCGGGCAAGAGGTTGCCTACTGAGGCAGAG
TGGGAATACAGCTGTAGAGGAGGCCTGCAGAACAGGCTTTTCCCCTGGGGCAACAAACTGCAGCCCAAAG
GACAGCATTATGCCAACATCTGGCAGGGCAAGTTTCCTGTGAGCAACACTGGCGAGGATGGCTTCCAAGG
AACTGCCCCCGTTGATGCCTTTCCTCCCAATGGCTATGGCTTATACAACATAGTGGGGAATGTGTGGGAG
TGGACCTCAGACTGGTGGACTGTTCACCATTCTGTTGAGGAAACGTTCAACCCAAAGGGTCCCACTTCTG
GGAAAGACCGAGTGAAGAAGGGTGGATCCTACATGTGCCATAAGTCCTATTGCTATAGGTACCGCTGTGC
AGCTCGAAGCCAGAACACACCAGATAGCTCTGCATCCAACCTGGGATTCCGATGTGCAGCCGACCACCTG
CCCACCGCAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

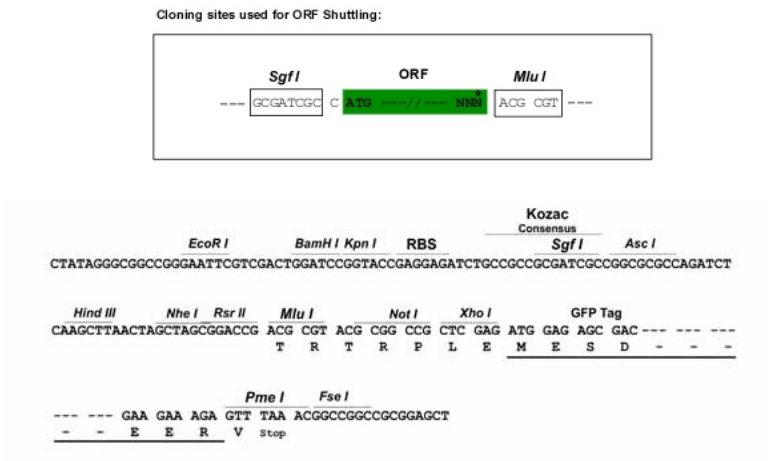
>MG203864 representing NM_145937
Red=Cloning site Green=Tags(s)

MVPIPAGVFTMGTDDPQIRQDGEAPARRVTVDGFYMDAYEVSNADFEKFVNSTGYLTEAEKFGDSFVFEG
MLSEQVKTHIHQAVAAAPWWLPVKGANWRHPEGPDSSILHRSNHPVLHVSWNDAVAYCTWAGKRLPTEAE
WEYSCRGGLQNRLFPWGNKLQPKGQHYANIWQGKFPVSNTGEDGFQGTAPVDAFPPNGYGLYNIVGNVWE
WTSDWWTVHHSVEETFNPKGPTSGKDRVKKGGSYMCHKSYCYRYRCAARSQNTPDSSASNLGFRCAADHL
PTAD

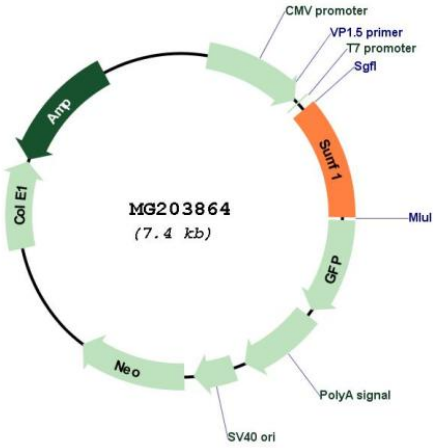
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145937

ORF Size: 852 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_145937.1, NP_666049.1
RefSeq Size:	2641 bp
RefSeq ORF:	1119 bp
Locus ID:	58911
UniProt ID:	Q8R0F3
Cytogenetics:	6 E1
Gene Summary:	Oxidase that catalyzes the conversion of cysteine to 3-oxoalanine on target proteins, using molecular oxygen and an unidentified reducing agent. 3-oxoalanine modification, which is also named formylglycine (fGly), occurs in the maturation of arylsulfatases and some alkaline phosphatases that use the hydrated form of 3-oxoalanine as a catalytic nucleophile. Known substrates include GALNS, ARSA, STS and ARSE.[UniProtKB/Swiss-Prot Function]