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Product datasheet for MG204230

Sparc (BC004638) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sparc (BC004638) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sparc
Synonyms:	BM-40; ON
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204230 representing BC004638
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGCCTGGATCTTCTTTCTCCTTTGCCTGGCCGGGAGGGCCCTGGCAGCCCCTCAGCAGACTGAAG
TTGCTGAGGAGATAGTGGAGGAGGAAACCGTGGTGGAGGAGACAGGGGTACCTGTGGGTGCCAACCCAGT
CCAGGTGGAAATGGGAGAATTTGAGGACGGTGCAGAGGAAACGGTCGAGGAGGTGGTGGCTGACAACCCC
TGCCAGAACCATCATTGCAAACATGGCAAGGTGTGTGAGCTGGACGAGAGCAACACCCCCATGTGTGTGT
GCCAGGACCCCACCAGCTGCCCTGCTCCCATTGGCGAGTTTGAGAAGGTATGCAGCAATGACAACAAGAC
CTTCGACTCTTCCTGCCACTTCTTTGCCACCAAGTGCACCCTGGAGGGCACCAAGAAGGGCCACAAGCTC
CACCTGGACTACATCGGACCATGCAAATACATCGCCCCCTGCCTGGATTCCGAGCTGACCGAATTCCCTC
TGCGCATGCGTGACTGGCTCAAAAATGTCCTGGTCACCTTGTACGAGAGAGATGAGGGCAACAACCTCCT
CACTGAGAAGCAGAAGCTGCGTGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGAGGCTGGAGACCAC
CCCGTGGAGCTGTTGGCCCGAGACTTTGAGAAGAACTACAATATGTACATCTTCCCTGTCCACTGGCAGT
TTGGCCAGCTGGATCAGCACCCTATTGATGGGTACCTGTCCCACACTGAGCTGGCCCCACTGCGTGCTCC
CCTCATCCCCATGGAACATTGCACCACACGTTTCTTTGAGACCTGTGACCTAGACAACGACAAGTACATT
GCCCTGGAGGAATGGGCCGGCTGCTTTGGCATCAAGGAGCAGGACATCAACAAGGATCTGGTGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

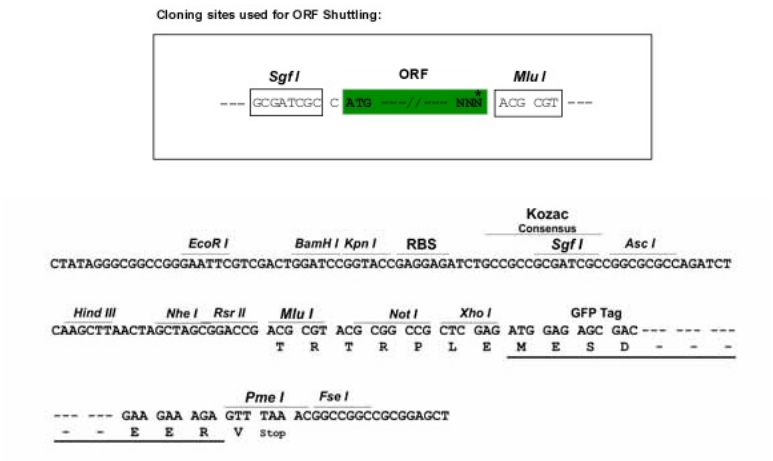
>MG204230 representing BC004638
Red=Cloning site Green=Tags(s)

MRAWIFFLLCLAGRALAAPQQTEVAEEIVEEETVVEETGVPVGANPVQVEMGEFEDGAEETVEEVVADNP
CQNHHCKHGKVCELDESNTPMCVCQDPTSCPAPIGEFEKVCSNDNKTFDSSCHFFATKCTLEGTKKGHKL
HLDYIGPCKYIAPCLDSELTEFPLRMRDWLKNVLVTLYERDEGNNLLTEKQKLRVKKIHENEKRLEAGDH
PVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLDNDKYI
ALEEWAGCFGIKEQDINKDLVI

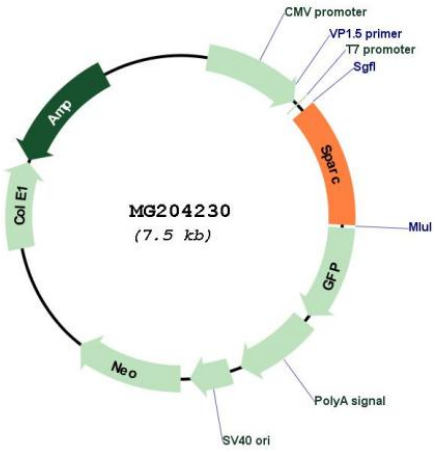
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC004638

ORF Size: 908 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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:	BC004638, AAH04638
RefSeq Size:	1153 bp
RefSeq ORF:	908 bp
Locus ID:	20692
Cytogenetics:	11 33.04 cM
Gene Summary:	Appears to regulate cell growth through interactions with the extracellular matrix and cytokines. Binds calcium and copper, several types of collagen, albumin, thrombospondin, PDGF and cell membranes. There are two calcium binding sites; an acidic domain that binds 5 to 8 Ca(2+) with a low affinity and an EF-hand loop that binds a Ca(2+) ion with a high affinity. [UniProtKB/Swiss-Prot Function]