

Product datasheet for **MG217858**

Aspscr1 (NM_001164224) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aspscr1 (NM_001164224) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aspscr1
Synonyms:	1190006K01Rik; ASPC; ASPCR1; ASPL; ASPS; RCC17; TUG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217858 representing NM_001164224
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCTGTGTCCCGTAGCCGCGAGGGGCTGAGAACATAGTTCGCATCGCGTCCAGCTGGATGACG
 GCTCCAGGTTGCAGGACGCTTTCTGTTCCCGACAGACTCTCTGGGAGCTTCTCAGCCATTTTGCACAGAC
 CAGGGAGCGTCTGCAGCAGCTGGGTGAGAAGACCCTGTCTGCGTGTACATGAGGAATGAGGTGACTGGT
 AGAGCTGCCTTACAGAACAACCCCTCAGTCACTGGGCCTGACAGGTGGTAGTCCACCATCAGGTTTG
 TCATAAAGCAGTGTGACACCGCCGGCAAACAGGAGTCCATAGCCGTGAGGAGCAAGGCCCGGAAAGTCC
 GGTCTCCTCCTTGTGACCCGACCAGGCATCCAGTAGCACATTGCTTCTCTGAACTCTGGGGAGTTCAGC
 AGGGGAGACCTAAACCATGAGGGTATGCAACACCTCAGGGACCGCCCTGAGGGTGGCCCAAACCAA
 CGGATGCTCAAACAAGCAAAGCACCAGTGAAGCTGCATCGGCCCTTCGTTCCCTTCTCTGGGGGGG
 CCAGCGGCTGGGGGGCCGTCTGCGTCTTGAACCTTAACATCACCTTCGGCCAATTCATCCAAGTCT
 TTCTCTGGCCCTGGGGGCCCTTCTAAGCCAAGAAGCCAAAGCCTGGTGAGGAGCCCAAGCAGGAGCCTG
 AACCGCCCGTTGACCGAGATCCTGTGGTGTACCACCTGACCTAGAGGACTTGTACAGCCCTGGCCGGC
 AGAGGTGCCTGACGAGTCTTTGAGGTGACTGTGGATGATGTGAGGAGACGCTTGGCCAGCTCAAGAGT
 GAGCGGAAGCGTCTGGAAGAAGCCCCCTGGTGACCAAGGCTTTCAGGGAGGCTCAGATGAAGGAGAAAC
 TGGAAAGTTACCAAAGTGGCTCTGCGGGTCTATTCCCTGACCGCTACATCCTGCAGGGCTTCTTCCG
 CCCCAGTGAGACAGTCACTCGCTCCACCCAAAATGGTCTGGATGACCACACGCTGACTCTTTTCAGGCA
 AACCTTCCCTGCTGCGCTTGTGCACTTTGGAGCTGAAGAACAACAGGTCTCTATCTGGAACCTGGGC
 TGCTAGAACAACACCGTCTCCCCATCTACAGCTGATGTGCTGGTGGCCAGGTGTATGTCCCGGGCTCCGG
 GTCCCCACCTCTGCTGCCAGCCCTGACCCTGTATCCCTGGAGTCTGAGCCAATCGCTGAGGATGGGGCA
 CTGGGGCCCCAGAGCCATCCAAGGGACAGCCAGCCTGTGAAGAGAAGCCTGGGCAAAGTACCCAAGT
 GGCTGAAGCTGCCAGCCAGCAAGAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG217858 representing NM_001164224
 Red=Cloning site Green=Tags(s)

MVPVSRREGPENIVRIAFQLDDGSRLQDAFCSRQTLWELL SHFAQTRERLQQLGEKTPVCVYMRNEVTG
 RAALQNTTLQSLGLTGGSATIRFVIKQCDTAGKQESIIVRSKAPGSPVSSL SADQASSSTLLPLNSGEFS
 RGDLNHEGDANTSGTGLEGGPKPTDAQTKQSTSEPASAPFVFPFSGGGQRLGGPSASLRPLTSPSANSKS
 FSGPGGSPKPKPKPGEEPQQEPEPPVDRDPVVYHPDLEDLLQPWPAEVPDEF FEVTVDVRRRLAQLKS
 ERKRLEEAPLVTKAFREAQMKEKLERYPKVALRVLFPDRYILQGF FRPSETVIAPPKMVLDDHTLTLFQA
 NLFPAALVHFGAEPTGLYLEPGLLEHTVSPSTADVLVARCMSRASGSPPLLPAPDPVLSLESEPIAEDGA
 LGPPEPIQGTAPVKRSLGKVPKWLKLPASKR

TRTRPLE – GFP Tag – V

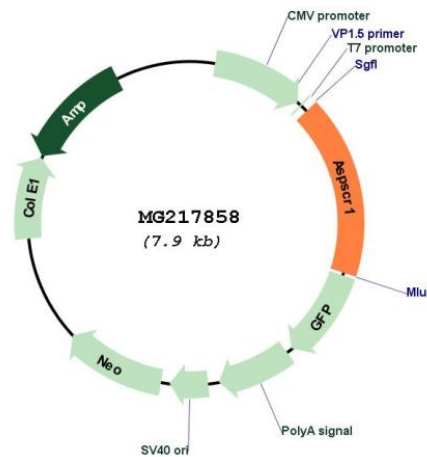
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164224

ORF Size: 1356 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:	<ol style="list-style-type: none">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:	<u>NM_001164224.1</u> , <u>NP_001157696.1</u>
RefSeq Size:	1588 bp
RefSeq ORF:	1359 bp
Locus ID:	68938
UniProt ID:	<u>Q8VBT9</u>
Cytogenetics:	11 E2
Gene Summary:	Enhances VCP methylation catalyzed by VCPKMT (By similarity). Tethering protein that sequesters GLUT4-containing vesicles in the cytoplasm in the absence of insulin. Modulates the amount of GLUT4 that is available at the cell surface.[UniProtKB/Swiss-Prot Function]