

Product datasheet for MR217532

Scara5 (NM_001168318) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scara5 (NM_001168318) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Scara5
Synonyms: 4932433F15Rik; 4933425F03Rik; AV278087; Tesr
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR217532 representing NM_001168318
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAACAAAGCCATGTACCTGCACACCGTGAGTGACCGTGACAACGGCTCCATCTTTGAAGAACCTT
TTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTCACAAACGGCGGGGGAGG
CTGCTGTACACAGCTGGCTCCCTCTCAGCGCTGAAGCATGCAGTCTGGGGCTGTATCTTCTGGTCTTC
CTGATTCTTGTGGTATCTTCATCTTAGCAGTGTCCCGGCTCGAAGCTCCCAGATGACTTGAAGCGC
TGACTCGAACGTCAACCGGCTGAATGAGAGCCTCCGGGACATGCAGCTGCGGCTGCTGCAGGCTCCATT
GCAGGCAGACCTGACAGAGCAGGTGTGGAAGTTCAAGATGCGCTGCAGAACCAGACAGACTCGTTGTTG
GCCCTGGCCGGCTTGGTGCAGAGGCTGGAGGGCACGCTGTGGGGCTGCACGCGCAGGCGGCACAGACTG
AGCAGGCGATGGCCCTGCTGCGGGACCGAACAGGACAGCAGAGTGACTCCGCACAGCTGGAACCTCTACCA
GCTGCAGGTGAAAGCAATCGAAGCCAGCTACTGCTGCAGCGCCACGCGGGCCTGCTGGATGGGCTAGCA
CGCAGGTTGGGGTCTGGGGGAGGAGCTGGCTGACGTGGGCGGTGCGCTCCGTGGTCTCAACCACAGCC
TGTCTATGACGTGGCCCTGCACAGCACGTGGCTACAGGACCTGCAGGTGCTGGTGAATGCCAGCGC
AGACACTCGCCGTATGCGGCTGGTGCACATGGACATGGAGATGCAGCTCAAGCAGGAGCTGGCCACACTC
AACGTGGTGACCGAGGACTGCGTCTGAAGGACTGGGAACCTCCATCGCCTTGAGGAACATCACCCCTTG
CCAAAGGGCCACCGGACCCAAAGGTGACCAAGGAAATGAAGGGAAGGAGGAAAGCCAGGTAGCCCTGG
ACTTCTGGATCTCGAGGTCTGCCAGGAGAGAGGTTGACCCAGGACTGCCTGGTCCCAAGGTTGATGAT
GGGAAGCTAGGGGCTACGGGCCCATGGGCATGCGCGATTCAAAGGTGATCGAGGCCCAAAGGAGAGA
AAGGAGAGAGAGGAGAGAGACTGAATGTTGCCGAGGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR217532 representing NM_001168318
 Red=Cloning site Green=Tags(s)

MDNKAMYLHTVSDRDNGSIFEEPFDGRLSKLNLCEGDPCHKRRAGGCCTQLGSLALKHAVLGLYLLVFLILVGI
 FILAVSRPRSSPDDLKALTRNVNRLNESLRDMQLRLLQAPLQADLTEQVWVQDALQNQTDLSLLALAGL
 VQRLEGLWGLHAQAAQTEQAMALLRDRTGQSDSAQLELYQLQVESNRSQLLLQRHAGLLDGLARRV
 GVLGEELADVGGALRGLNHSLSYDVALHSTWLQDLQVLVSNASADTRRMRLVHMDMEMQLKQELATL
 NVVTEDLRLKDWEHSIALRNITLAKGPPGPKGDQGNQEGKEGKPGSPGLPGSRGLPGERGDPGLPGPKGDD
 GKLGATGPMGMRGFKGDRGPKGKGERGERAECCRGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001168318

ORF Size: 1161 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_001168318.1](#), [NP_001161790.1](#)

RefSeq Size: 3296 bp

RefSeq ORF: 1164 bp

Locus ID: 71145

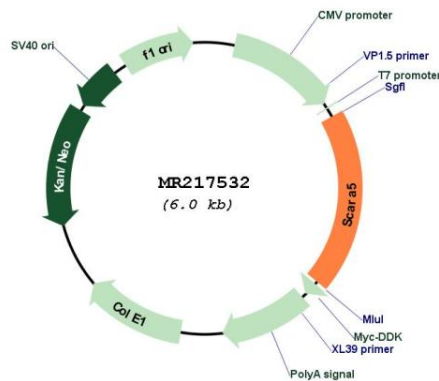
UniProt ID: [Q8K299](#)

Cytogenetics: 14 D1

MW: 42.5 kDa

Gene Summary: Ferritin receptor that mediates non-transferrin-dependent delivery of iron. Mediates cellular uptake of ferritin-bound iron by stimulating ferritin endocytosis from the cell surface with consequent iron delivery within the cell. Delivery of iron to cells by ferritin is required for the development of specific cell types, suggesting the existence of cell type-specific mechanisms of iron traffic in organogenesis, which alternatively utilize transferrin or non-transferrin iron delivery pathways. Ferritin mediates iron uptake in capsule cells of the developing kidney. Binds preferentially ferritin light chain (FTL) compared to heavy chain (FTH1).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217532