

## Product datasheet for **MG217532**

### Scara5 (NM\_001168318) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Scara5 (NM\_001168318) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Scara5  
**Synonyms:** 4932433F15Rik; 4933425F03Rik; AV278087; Tesr  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217532 representing NM\_001168318  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAACAAAGCCATGTACCTGCACACCGTGAGTGACCGTGACAACGGCTCCATCTTTGAAGAACCCT  
TTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTCACAAACGGCGGGGGAGG  
CTGCTGTACACAGCTGGCTCCCTCTCAGCGTGAAGCATGCAGTCTGGGGCTGTATCTTCTGGTCTTC  
CTGATTCTTGGGTATCTTCATCTTAGCAGTGTCCCGGCTCGAAGCTCCCAGATGACTTGAAGCGC  
TGACTCGAACGTCAACCGGCTGAATGAGAGCCTCCGGGACATGCAGTGCAGGCTGCTGCAGGCTCCATT  
GCAGGCAGACCTGACAGAGCAGGTGTGAAGGTTCAAGATGCGCTGCAGAACAGACAGACTCGTTGTTG  
GCCCTGGCCGGCTTGGTGCAGAGGCTGGAGGGCAGCTGTGGGGCTGCACGCGCAGGCGGCACAGACTG  
AGCAGGCGATGGCCCTGCTGCGGGACCGAACAGGACAGAGAGTACTCCGCACAGCTGGAACCTCTACCA  
GCTGCAGGTGAAAGCAATCGAAGCCAGCTACTGCTGCAGCGCCACGCGGGCCTGCTGGATGGGCTAGCA  
CGCAGGTTGGGGTCTGGGGGAGGAGCTGGCTGACGTGGGCGGTGCGCTCCGTGGTCTCAACCACAGCC  
TGTCTATGACGTGGCCCTGCACAGCACGTGGCTACAGGACCTGCAGGTGCTGGTGAAGTCCAGCGC  
AGACACTCGCCGTATGCGGCTGGTGCACATGGACATGGAGATGCAGCTCAAGCAGGAGCTGGCCACACTC  
AACGTGGTGACCGAGGACTGCGTCTGAAGGACTGGGAACATCCATCGCCTTGAGGAACATCACCCCTTG  
CCAAAGGGCCACCGGGACCCAAAGGTGACCAAGGAAATGAAGGGAAGGAGGAAAGCCAGGTAGCCCTGG  
ACTTCTGGATCTCGAGGTCTGCCAGGAGAGAGGTTGACCCAGGACTGCCTGGTCCCAAGGTTGATGAT  
GGGAAGCTAGGGGCTACGGGCCCATGGGCATGCGCGATTCAAAGGTGATCGAGGCCCAAAGGAGAGA  
AAGGAGAGAGAGGAGAGAGACTGAATGTTGCCGAGGTGGC

**ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >MG217532 representing NM\_001168318  
 Red=Cloning site Green=Tags(s)

MDNKAMYLHTVSDRDNGSIFEEPFDGRSLSKLNLCEGDPCHKRRAGGCCTQLGSLALKHAVLGLYLLVF  
 LILVGIFILAVSRPRSSPDDLKALTRNVNRLNESLRDMQLRLLQAPLQADLTEQVWKVQDALQNQDLSLL  
 ALAGLVQRLEGLWGLHAQAAQTEQAMALLRDRTGQQSDSAQLELYQLQVE SNRSQLLLQRHAGLLDGLA  
 RRVGVLGEELADVGGALRGLNHSLSYDVALHSTWLQDLQVLVSNASADTRRMRLVHMDMEMQLKQELATL  
 NVVTEDLRLKDWEHSIALRNITLAKGPPGPKGDQNEGKEGKPGSPGLPGSRGLPGERGDPGLPGPKGDD  
 GKLGATGPMGMRGFKGDRGPKGKGERGERAECCRGG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

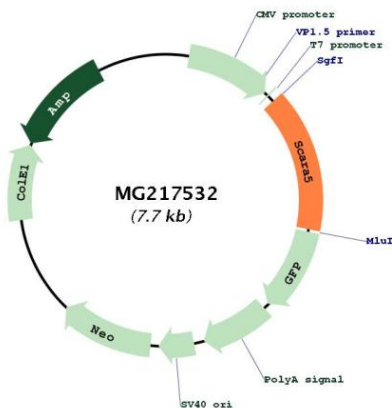
**Locus ID:** 71145

**UniProt ID:** [Q8K299](#)

**Cytogenetics:** 14 D1

**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 MG217532