

Product datasheet for MC201586

Scara5 (NM_028903) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scara5 (NM_028903) Mouse Untagged Clone
Tag: Tag Free
Symbol: Scara5
Synonyms: 4932433F15Rik; 4933425F03Rik; AV278087; Tesr
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC032159 sequence for NM_028903
 CCACGCGTCCGCTGAGGCTGACCGACTGCACCAAGACAAGGAGTCCCACGTGCAGACCTGTTATTCAG
 CCACCTTTGTTGAACGGATCCTCCCATAGAAGTGACTCTGTGGCCCTGGCCTAAATCACTAGGTGACCTG
 AAGACTCTTTCTATATGACTCCATCTGGATTTGGCTGGCTGTGGGTACAAGCTTCAAGGGACTTTCTGGG
 TCTTCGTGGGGCAGCAGTCTCTGGCTACCATGGCAATCGCTGGAACTGAAGGGACAGGGCCAG
 GCTCAGCACGGGCATACAGGATACGATGGACAACAAAGCCATGTACCTGCACACCGTGAGTGACCGTGA
 CAACGGCTCCATCTTTGAAGAACCCTTTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGT
 CCATGTCAACAACGGCGGGCGGGAGGCTGCTGTACACAGCTGGGCTCCCTCTCAGCGCTGAAGCATGCAG
 TCCTGGGGCTGTATCTTCTGGTCTTCTGATTCTTGTGGGTATCTTCATCTTAGCAGTGTCCCGCCTCG
 AAGCTCCCCAGATGACTGAAGGCGCTGACTCGGAACGTCAACCGCTGAATGAGAGCCTCCGGGACATG
 CAGCTGCGGCTGCTGCAGGCTCCATTGCAGGCAGACCTGACAGAGCAGGTGTGGAAGGTTCAGGATGCGC
 TGCAAGAACAGACAGACTCGTTGTTGGCCCTGGCCGGCTTGGTGCAGAGGCTGGAGGGCAGCTGTGGGG
 GCTGCACGCGCAGGCGGCACAGACTGAGCAGGCGATGGCCCTGCTGCGGGACCGAACAGGACAGCAGAGT
 GACTCCGCACAGCTGGAACCTACCAGCTGCAGGTGAAAAGCAATCGAAGCCAGCTACTGCTGCAGCGCC
 ACGCGGGCCTGCTGGATGGGCTAGCACGCGAGGTTGGGGTCTGGGGGAGGAGCTGGCTGACGTGGGCGG
 TGCGCTCCGTGGTCTCAACCACAGCCTGTCTATGACGTGGCCCTGCACAGCACGTGGCTACAGGACCTG
 CAGGTGCTGGTGAGCAATGCCAGCGCAGACACTCGCCGTATGCGGCTGGTGCACATGGACATGGAGATGC
 AGCTCAAGCAGGAGCTGGCCACACTCAACGTGGTGACCGAGGACCTGCGTCTGAAGGACTGGGAACACTC
 CATCGCCTTGAGGAACATCACCTTGCCAAAGGGCCACCGGGACCCAAAGGTGACCAAGGAAATGAAGGG
 AAGGAGGGAAAGCCAGGTAGCCCTGGACTTCTGGATCTCGAGGTCTGCCAGGAGAGAGGTTGACCCAG
 GACTGCCTGGTCCCAAGGTTGATGATGGGAAGCTAGGGGCTACGGGCCCATGGGCATGCGCGGATTCAA
 AGGTGATCGAGGCCAAAAGGAGAGAAAGGAGAGAGAGGAGAGAGAGCTGGTGACATGGATTTACAATG
 ATTCGCTGGTGAATGGCTCCGGCCACACCAGGGCCGGTGGAGGTGTTCCATGATCGTCGTTGGGGCA
 CAGTGTGTGACGACGGCTGGGACAAGAAGGACGGGGACGTGGTGTGCCGATGCTGGGCTCCACGGGGT
 TGAGGAGGTGTACCGGACAGCTCGTTTTGGCAAGGCACAGGGAGGATTTGGATGGACGATGTGAACTGC
 AAGGGAACCGAGAGCTCCATCTTCCACTGCCAGTTCTCCAAATGGGGGTGACAACTGTGGGCATGCTG
 AGGATGCTGGGGTACTGTACTGTCCCCTGAGAGTGGCCGACGCCAAGGCCAGGGCACTGCTGTTGAG



[View online »](#)

```

CCACGTTCTGTGTCTCTAGGGGAGGGGAATTGCTTGGAGCCACCTAACCATGGCTCATGCCTGATC
CAACACCACCCACCCTTGTGCGAGTTGGCCCTACTCTGGTTCGAAGGTGACCGGATGTCACTCTCTTT
GCAGACAAGTGTCCAAAGTGTCTAGTGGGACCTACATTTCTGTCTTTCCCTTCCACCAAGGTTTCTACAT
GGGAGTCTAGTCATTTGAACCAGCAGTTTGTGAGCTCTCTGAAGAAGATTCTAAGGGCCTGGGGAT
CCATATCCCTTTGGTCTCTGGTTACAGATGGATGCTGATATGATATGATGTATAGGCAAGCGCAGCA
ATGGAGGTGGGAGGTGTTATGGGTCATTTACTTTGCAGATAATTCTCAAATCCCACAGTTTCACCATCCA
CTCCCCAGCAAGTAGAAACCCCTAATGACTCTGTTTCCCTCTTTTCTCTGCCTCATCACACCATGTTA
TTTAGAGGAAGGAGCAGTGGAGAAACCAATGGGAGACATAAGAAAATGGCAGATACCTGATAAACCCAGC
TGGAGCTGGGAATGGAGGAAATAACTACCATGCTGTGCTACATCATATCTTGGGTGCTGGAATCACTTA
TCCATATTGCTGTGCTAATAAGGCAAGGCATGTCCCTCAGGGCAGGACTCTGCCTCTGGGAGTGTCTAC
CTGACCCGTTTCTGCTTCCAAGTTAGAAGACCAAGAATGAGCAAGACTGAGACCAGGTTCCCATGTG
AATCTTAGCGTGTCTTGTAGGCCTGCCTGAGCAACAACTTGGGCTGTAGACATTCCTTCTTAGAAGG
TTGATGTCCAAATCTACAGCAAGCACATGTAAGATCAGACATAATGGGTTTCTAAGTACACGCAGGA
GGGCTGATTTGAAAGGTGACATGGGAGCTATCCACATTAACCTGAGTCCATCAGTCGTTAGACTGTGTCT
CAGGGTCTTGGTACATTGTACCTTCCAGGCCTCTAATAAGAAATCCTGTGATCCAAGGAATGCAATC
CTGGTAAACCCCTAAAGGTAGAAAAGATATGAAATTCCTATAACCTTCCCATGGGAAATGAGAGGCCT
CGGAACCTCTCAAGCCTTTAGTTGCACTTCCCCCTGCTTACAAAGAGAACATAATTTGCTTTGACCCAG
GGAGGAGGTTGAACTAGATTGTACATGTGTTCTAGAACCAGGGAGCTGCAGGGCAGCAACTGAGTGACAG
CCTGTCTGGCTAAAATAGAGTCACAGACACAATCACATATCCTATGAAGTGAGCATTATCCTGCTCACAG
TCAAGAAAAACTATGTACATCCAGGTATAGTTGCCCAAAGATCCTGACTGGCCACTCAGCCAATATTTG
ATCTTGGTCATTTCTGCTTGAATATGTGTTATCACTACTGTTCTCATGATCTGACCAACTGTTATGTT
TACATAACATGCATGTGCTCATGCATTTCTTCCAGAGCCGATGTATGTATCCCTGTACAAGCGTAGCAC
TCCTATTACATTGCCATTGCTCAGCAGTCATAATGGTTACATTTTAAAAGATAGGCTAACGGCGGTAT
TTTTTAGAAAGGTGTTTTAAAGGTGCCTAACATCACTTTGAAAATTATGGGAAAAAATCCAGTTACCCC
AGTGATGAAGACTCAGCAACTTTCTCACTTGGTCTTTACATGGAGAAACACAAGTTTGGCTTTATGTCT
ATAAAAGCAATGTTAAAAGTATTTAAGCATAAAAAACAAGAGTCGGCTAGTTTACAGACCTACCTACGAG
GGCATGGAAATGACCATGGCCTGGATTTCCAGGGACTAATGGAAACTAGGCCTAGAATACTTCAGATGTTT
TGTAAGAAAGAATCTCAATAAAGTACACATTTGAAATAGAAAAAATAAAAAAAAAAAAAAAAAAAAAA

```

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_028903
- Insert Size:** 1476 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC032159](#), [AAH32159](#)

RefSeq Size: 3779 bp

RefSeq ORF: 1476 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]

Transcript Variant: This variant (1) encodes the longer isoform (1).