

Product datasheet for **MG215630**

Slc39a5 (NM_001136237) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a5 (NM_001136237) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc39a5
Synonyms:	1810013D05Rik; 2010205A06Rik; Zip5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215630 representing NM_001136237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCCAGTACATCATCTGCTGACTGGCCTATGTGTGGGGGTGGCCTTGGCTGGGTAGGAGGCT
 CCGTCCCAAACCTGGGCCAGCTGAACAGGAACAGAACCCTACCTGGCCAGTTGTTTGGTCTATATGG
 AGAGAACGGGACACTGACTGCAGGGGGCCTGGCGCGGCTTCTCCACAGCCTAGGACTAGGCCGAGTCCAG
 GGGCTCCGTCTGGGACACCATGAGCCTCCAAGTGGGCGGGCTGCACCCACAAGTGGAGACAATTTACAC
 ACAGGCTGCAAGAGCCGGAGCTGAGTGTGGACATCTGGGCAGGAATGCCTCTGGGCCCTTTCAGGTTGGG
 TGACCAGGAGGAATCAAAGGCTCCTGACCTGCACGGGTGAGGGCCCTCGAGCCTAGACCTTCCAGAGG
 CTTCTGCTGTTGGACATTTCGTTGGCTGACCATCTGAATGAGGATTGTCTGAATGGCTCCAGCTGCTGG
 TCAATTTGGACTGAGCCCTGTTGCTCCTGACCCCTCGTCAGTTCGCTCTGCTGTGCCAGCCCTGCT
 TTATCAGATTGACAGCCGTGTTGCATCAAACCCAGCTCCAGCACCTCCGGGGATGTACTGTCTGCC
 CTGCTTACAGTGGCCTGGCAGTCTGTTCTCAGCCTCCCTGCTCCCTCTCTGCTGTTGCTGCGGC
 TCCTGGGACCTCGTCTGTTGCGGCCAGTCTGGGCTTCTGGGGCCCTGGCCGTGGGTACTCTCTGTGG
 GGATGCCCTGCTACACCTGCTCCACATGCGCAAGGAGGGCGGCACACAGGACCTAGTGAGCAATCAGAG
 GAGGACCTGGGTCCGGGACTGTCGGTGCTTGGTGGCCTTTCCTGCTCTTCATGCTAGAGAACACACTAG
 GACTTGTGCGGCACAGAGGGCTCAGGCCAAGATGCTGCAGGAACAAAAGGATCTTGAGAACAAAACCC
 TGACCCAGAGGATGGCAGTGGGATGGTCTTCGACCCCTACAGGCAGCTTCAAGACAGAGGTTTCAGGGC
 CAGAGGGAGAACAGACAGTCTCACCATCTAGCCCTCCTGGGCACCAAGGCCACAGCCATGAGCACC
 GGGGTGGCAGTATCGCATGGATGGTCTCCTGGGAGATTGCCTGCACAACCTCACCGACGGCTGGCATT
 AGGTGCTGCTTTCTCAGACGGCTTCTCCAGTGGCCTCAGCACTACCCTAGCAGTCTTCTGCCACGAGCTG
 CCCCACGAACTGGTGACTTTGCCATGCTGCTTACGGAAGGGTTATCCTTTCGGAAGCTGCTGCTGCTGA
 GCCTCGTTTCTGGAGCCCTGGGACTGGGGGTGCAGCCCTGGGGGTGGGCTCAGCTTGGGCCCTGTGCC
 CCTCACCCCTGGGTGTTGGGACCAGGCTGGGGTTTTCTCTATGTGGCCCTAGTGGATATGCTGCCA
 ACCCTGCTTCGCTCCTGAGCCCTGCCTGTGTTCCACGTGCTTCTGCAGGGGTGGGGCTGCTACTGG
 GGGCAGCCTCATGTTTACCATAGCCCTATTGGAGGAGCAGCTAGTCCCCAGGTTCTGACGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215630 representing NM_001136237
 Red=Cloning site Green=Tags(s)

MGPPVHLLTGLCVGVALGWVGSVPLNPGLPAEQEQNHLYLAQLFGLYGENGTLTAGGLARLLHSLGLGRVQ
 GLRLGHHEPPTGRAAPTSQDNFTHRLQEPQLSVDIWAQMPLGPSWGDQEEKAPDLHGSGPSSDLDFQR
 LLLLDHSLADHLNEDCLNGSLLVNFGLSPVAPLTPRQFALLCPALLYQIDSRVCIKTPAPAPPGDVLSA
 LLHSLAVLFLSLPAPLSLLLLRLLGPRLLRPVLFGLGALAVGTLCDALLHLLPHAQGGRRHTGPSEQSE
 EDLGPGLSVLGGFLFLMLENTLGLVRRHLRPRCCRNKRDLGEPNPDPEGSGMVLRLQAASEPEVQG
 QRENRSQSSPLAPPGHQHSHEHRGGSIAWMVLLGDCLHNLTDGLALGAAFSDGFSSGLSTTLAVFCHL
 PHELGFAMLLQEGLSFRKLLLLSLVSGALGLGGAALGVGLSLGPVPLTPVWFGTTAGVFLYVALVDMLP
 TLLRPPEPLPVFHVLLQGLGLLGGSLMFTIALLEEQLVPTVPDG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001136237
ORF Size:	1605 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:	NM_001136237.1 , NP_001129709.1
RefSeq Size:	1944 bp
RefSeq ORF:	1608 bp
Locus ID:	72002
UniProt ID:	Q9D856
Cytogenetics:	10 D3
Gene Summary:	May play a role in polarized cells by carrying out serosal-to-mucosal zinc transport. Plays a role in eye development. Could regulate the BMP/TGF-beta (bone morphogenetic protein/transforming growth factor-beta) signaling pathway and modulates extracellular matrix (ECM) proteins of the sclera (PubMed:24891338). Seems to play a central role in controlling organismal zinc status.[UniProtKB/Swiss-Prot Function]