

Product datasheet for **MG210055**

Slc39a12 (NM_001012305) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a12 (NM_001012305) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc39a12
Synonyms:	AW046938; Gm731
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210055 representing NM_001012305
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCTTCTGGACCAATCTTTTCAGTGTGGATGATCCTACTGTCCCACTCCCTCAGCCTCGTTTCCTCTA
 CTGAGACCGGCAAAACCCTCACTCAGAATAACAGCAGAGCTGGGAGCCAAGGCCTCTAGAAGTTCTGAG
 GGTCTCTCTGCTGGTGACCACTGGTCCCTCAACCATCCACAAAGCCTCATCAAAATTCTGTTGGAGAGG
 ACTGGGTGTCCACAGAGAACAGATTGGACACAAGGAGACTGCAAGCTGTGTTTGAAGCAGATGCACTGT
 TACTCACAGCTGGGGAAATTTGGAGGATGAGCTAAGAGAGGAGGTAGTCCAGAGAGTTTCTCTTCTCT
 CCTCTACTACATAATTCATCAGGAAGAGATCTGTTCTTCCAAGCTCAACATGAGCAACAGAGAATATGAG
 TTTTACCTGCACAGCCTACTCGGCCTTAGGCAGGATGAAGACTCCTATTTCTTTTCAGAGAAGGAGACTG
 ATGACATCTTGGCTTTCACCAGGAAGTACTTTGGCACTCCAGTAGCCAGTGTATGGAACTAAGATTCT
 GCAGAGGGAATCTGGCATTTCAGGGCAGCAATGGTCTGATGAAAAGACACTTCTCAGCTGGCAGCAACC
 ATCATCGCTCTGTCACTCCAAGGAGTTTGTCTGGGAAGAAAAGCCTTGCCTTCTCCAGATGATTTTACAG
 AGTATATTTTTCAGTTTCTGAATAGTACCAATACCCTCCACCTATCTGAAATAGAGCAACTTCTGAACAT
 GCTCAGCACCAGAAGGACCTGTGCTAAAGAGGATAAATACCTCCATCAATACCAAAGGAAACAAAACACA
 GAGGAACACAGTTTGAGAGACCCCAAGACATCTACAGCAATGGACAAAGAGTCTGATGATCATTCTCCTT
 CCTGGGATCAGGCTTGTCTCTGCTAGGCAGTTGGTGGAGATATTTCTACAGAATCATAGCAGTCTGTC
 CATTTCTAAGGAGGACTTTAAGCAGCTAAGTCCAGGGATCATCCAGCAACTTCTCAGCTGCTCTTGTGTCAG
 ATGCCAAAGGACCAGCAAGCAAAGCCCCCACCACCTCTGGAGAAATATGGCTACAGTACAGTGGCAG
 TGACACTCCTAACCTTGGGCTCCATGCTTGGGACAGCGCTGGTCTTTTCCACAGCTGTGAGGAGAATA
 CAGTCTTATTTTACAGCTGTTCTGGGTTTGGCTGTGGGACGCTCTCTGGGGATGCCCTGCTCCATCTC
 ATACCTCAGGTTCTTGGTTTACATAAGCAGGAAGCAGAGTTTGGGCATTTCCATGAAAGCCAAAGTCTTA
 TTTGGAAGCTGTTGGGACTACTTGGAGGCATCCATGGATTTTCTTGATAGAAAAATGTTTATCCTTCT
 TGTATACCAAATACCAAGGCTGCTGCCATTAGTTAATGAACATGTGGGACATACACACCCTTGGACTC
 AATCCAGAATTAATGACCAGTCAAGTGGAGGCAAGTCTATCTCAACCATCCAAGTAAAGGCCCAGAAAG
 ATTCACAGACAACTGTGCTACCCATAGGCAATGTGCCAGCCTCCAACAGAAATGGCAAACCATCAGCTT
 ATTGGCCATTATGATCCTGGTTGGAGATAGCCTGCACAATTTGCAGATGGCCTAGTAATAGGCACAGCC
 TTCTCCTTTCATTGGAGTCAGGAGTGACCACAACAATTGCTATCTTGTGTCATGAAATCCACATGAAA
 TGGGAGACTTTGCAGTGTCTTAAGCTCAGGACTCTGTGAGGACTGCCATCCTGATGAATTTTCTAAG
 TGCCCTGACGGCCTTCGAGGACTGTACATTGGTCTCTCAGTATCTGCTGACCCAGTGTCCAAGACTGG
 ATTTTAAAGTACTGCTGGGATGTTCTTATTTATCTTTGGTGGGATGCTTCTGAAATGACTCATG
 TTCAGACACAACGACCCTGGATGACGTTTCTCTGCAGAATGTGGATTGGTCTTGGCTGGTTTCTCT
 TTTGCTCTTAGCTGTATATGAACAGAATATTAATAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210055 representing NM_001012305
 Red=Cloning site Green=Tags(s)

MCFWNTLSVWMILLSHLSLVSSTETGKTLTQNNRAGSQGLLEVLRLVLSAGDHWSLNHPQSLIKILLER
 TGCPQRDWTQGDCKLCLEADALLTAGGNLEDELREEVVQRVSLLLYYIIHQEEICSSKLNMSNREYE
 FYLHSLGLRQDEDSYFLSEKETDDILAFTRKYFGTSSSQCMETKILQRESGIQSNGADEKTLPLAAT
 IIALSLQGVCLGRKALPSPDDFTEYIFSLNSTNTLHLSEIEQLLNMLTTRRTCATEDKYLHQYQRKQNT
 EEHSLRDPKTSTAMDKESDDHSPSWDQACFSARQLVEIFLQNHSSLSISKEDFKQLSPGIIQQLSCSCQ
 MPKDQQAQPPPTTLEKYGYSTVAVTLLTLGSMGLTALVLFHSCENYSLILQLFVGLAVGTLSGDALLHL
 IPQVLGLHKQAEFGHFHESQSPIWKLGLLGGIHGFFLIEKCFILLVSPNTKGLPLVNEHVGHTHHLGL
 NPELNDQSSGGKSI STIQLKGPEDSQTTVLPIGNVPASNRNGKTI SLLAIMILVGDLSLHNFADGLVIGTA
 FSSLSGVTITIAILCHEIPHMGDFAVLLSSGLSVRTAILMNFLSALTAFAGLYIGLSVSADPRVQDW
 ILTVTAGMFLYLSLVGMLPEMTHVQTQRPWMTFLLQNVGLVLGWFSLLLLAVYEQNIKI

TRTRPLE - GFP Tag - V

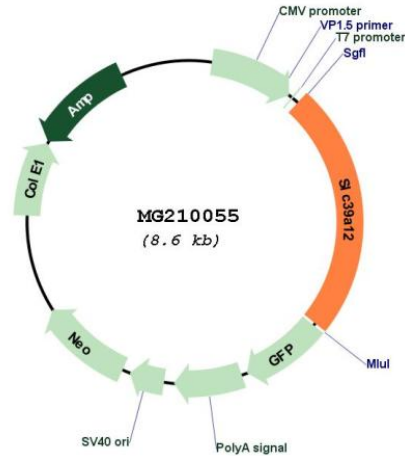
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001012305

ORF Size: 2067 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_001012305.2](#), [NP_001012305.1](#)

RefSeq Size: 2701 bp

RefSeq ORF: 2070 bp
Locus ID: 277468
UniProt ID: Q5FWH7
Cytogenetics: 2 A2
Gene Summary: Acts as a zinc-influx transporter.[UniProtKB/Swiss-Prot Function]