

## Product datasheet for **MG209354**

### Scara3 (NM\_172604) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scara3 (NM_172604) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Scara3
Synonyms:	APC7; C130058N24Rik; CSR; CSR1; MSLR1; MSRL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209354 representing NM\_172604  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAGTGAGATCAGCTGGCAGTGACAGGGATGTACTGTGTGCTACTGAAGAGGACCTGGCTGGTGAAG  
 ACGAGGACATGCCATCCTTCCCATGCACCCAAGAGGGCCGGGCAGGACCCGCTGCAACCGCTGCCAGAA  
 GAACCTATCTTTGCACACATCAGTGCAGATTTTGTACCTCTTCTCACTCTGCTCCTGGTGGCCGTGGCT  
 GTGCTGGCCTCTCTGGTTTTAGAAAGGTGGACTCTCTCTCAGAAGATATCTCCTTGGCCAGTCCATCT  
 ATAATAAGAAGCTTGTGTCAATGCAAGAAAATCTTCAAGGACTAGACCCAAAAGCCCTGATCAATTGTTC  
 CTTTTGCCGTGAGGCTGAGCAGCTGGGGCAAGAGATCAGGAAGGTCCAGGAGGAGCTGGAGGGGCTTCAG  
 AAGATGCTGCTAGCCAGGAGTCCAGCTGGACCAGACCTCCAGACCCATGAGCTGCTCTCCACCAGAA  
 GCAGTCAATCTCCAGGAGATGGCAGTTGCTCCTTCTCCATTACCAGGTCAATCAGTCCCTGGGACT  
 CTTCTGGCACAGGTGAGGGGCTGGCAGGCCACCACAGCAGGCATGGACATCACCTGAAGGACCTCACC  
 CAGGAGTGCTATGATGTCAAGGCTGCTGTACACCAGATCAACTTCACGGTGGGCCAGACTGCTGAGTGGA  
 TCCACGGGATCCAAAGGAAGACAGATGAGGAGACCCTGACCCTGCAGAAGATAGTCACTGACTGGCAGAA  
 CTACACCAGACTCTTTGGGGTCTGCGAACACCTCTGCCAAGACTGGCGAAATAGTCAAGACCATTAG  
 ACCACCTGGGGGCTCCTCACAGCGCATTAGCCAGAATTCTGAGAGCATGCATGACTTGGTTCTGCAGG  
 TCATGGGCTACAGCTACAGCTGGACAACATCTTCTCTTTTGGATGACCATGAGGAGAACATGCATGA  
 CCTCAATACCACACCCGATATGCCAGAATCGCACAGTGGAAAGGTTTCGAGTCTCTGGAAGGACGTATG  
 GCTTCTCATGAGATTGAAATCGGCACTATCTTACCAATATCAATGCCACCGACAACCACGTGCACAGCA  
 TGCTCAAGTACCTGGACAGCTGCGGCTGTCTTGCACACTGGGCTTCCACACCCATGCTGAAGAGCTCTA  
 CTACCTGAATAAATCCGCTCTCCCTCATGCTGGGACCACAGATCTGCTCAGGGAGCGCTTCACTGCTC  
 AGTGCCCGGTTAGACTTCAATGTCCGAAACCTCTCCATGATCATGGAGGAAATGAAGGCTGTGGACACAC  
 ACCACGGAGAAATCCTTCGCAATGTACCGTCACTCCGAGGTGTCCCGGCCCTCCAGGACCAAGAGGACT  
 CAAAGGAGATACAGGCGTAAAGGACCTGTTGGTAGCAGAGGACCTAAAGGGGATCCTGGCAATCTGGGA  
 CCCCCAGGACCTCAGGGTCTCAGGGGCAGCTGGGGAGCCAGGACCTGTGGGAGAAAGAGGGCCAGCTG  
 GCCCCAGAGGCTTCCAGGCCTCAAAGGCTCAAAGGGCAGCTTTGGCACTGGAGGACCAAGGGGGCAGCC  
 AGGCCCAAGGGGATGTGGGGCCCTAGGGCCAGAGGGGCCCCAGGGTCTCCAGGACCTCAGGGCCT  
 CAGGGAAAGCCAGGAATTCAGGAAAGACAGGGTACCAGGCCAGCGAGGGGCCACAGGGCCTAAGGGTG  
 AACCGGATCCAGGGTCCCCCTGGACTACCTGGACCTCCAGGTCCACCAGGGAACCAGAGCCCCCTAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209354 representing NM\_172604  
 Red=Cloning site Green=Tags(s)

MKVRSAQSDRDVLCVTEEDLAGEDEDMPSFPCTQEGRAGPRCNRQKNLSLHTSVRILYLFLTLLLVAVA  
 VLASLVFRKVDLSLSEDISLAQSIYNKKLVSMQENLQGLDPKALINCSFCREAEQLGQEIIRKVQEELEGLQ  
 KMLLAQEVQLDQTSQTHELLSTRSSQISQEMGSCSFSIHQVNSLGLFLAQVRGWQATTAGMDITLKDIT  
 QECYDVKAHVQINFTVGGTAEWIHGIQRKTDEETLTLQKIVTDWQNYTRLFGGLRRTTSAKTGEIVKTIQ  
 TTLGASSQRISQNSESMHDLVLQVMGLQLQLDNISFLDDHEENMHDLYHTRYAQNRTVERFESLEGRM  
 ASHEIEIGTIFTNINATDNHVSMLKYLDDVRLSCTLGFHTHAEELYLNKSVSLMLGTTDLLRERFSLL  
 SARLDFNVRNLSMIMEEMKAVDTHHGEILRNVTVIRGVPVPPGPRGLKGDVGVKGPVGSRGPKGDPGNLG  
 PPGPQGPQGPVGERGPAGPRGFPGLKGSKGSFDTGGPRGQPGPKGDVGLGPEGPPGSPGSPG  
 QKPGISGKTGSPQRGATGPKGEPGIQPPPLGPPGPPGNQSPY

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

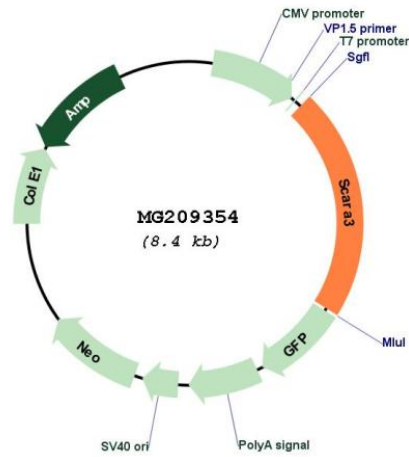
Sgfl-MluI

## Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_172604

ORF Size: 1818 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172604.3</a> , <a href="#">NP_766192.1</a>
<b>RefSeq Size:</b>	3405 bp
<b>RefSeq ORF:</b>	1821 bp
<b>Locus ID:</b>	219151
<b>UniProt ID:</b>	<a href="#">Q8C850</a>
<b>Cytogenetics:</b>	14 D1
<b>Gene Summary:</b>	Seems to protect cells by scavenging oxidative molecules or harmful products of oxidation. [UniProtKB/Swiss-Prot Function]