

## Product datasheet for **MG224171**

### Arsi (NM\_001038499) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arsi (NM_001038499) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arsi
Synonyms:	BC020108
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224171 representing NM\_001038499  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATGCTCTCTCAGGATTCTCCCTGGTCAGCCTACTCAGCTTGGGCTACCTGTCTGGGATTGGGCTA  
 AGCCCGGCTTGTGGCTGATGGGCTGCCGAGGCTGGCGATCAGCCTTCGGTGGCTCCACCGCAGCCTCC  
 ACACATTATCTTCATCCTCACCGACGACCAAGGGTACCACGACGTGGGATACCATGGCTCGGATATCGAG  
 ACCCCAACGCTGGACCGCTAGCAGCTGAGGGCGTCAAAGTGGAGAATTATTACATCCAGCCCATATGTA  
 CACCTTCGAGGAGTCACTCCTCACCGGACGTTACCAGATCCATACAGGATTGCAGCACTCCATTATCCG  
 CCCACGGCAGCCCAACTGTCTGCCCTGGACCAGGTGACGCTGCCCCAGAAGCTACAGGAGGCAGGCTAC  
 TCCACCCACATGGTGGGCAAGTGGCATCTGGGCTTCTACCGAAGGAGTGTTCCTACCCGCCGGGGCT  
 TCGACACCTTCTGGGTTCCCTCACAGGCAATGTGGATTACTACACCTACGACAAGTGTGATGGCCAGG  
 GGTGGTGGGTTTACCTGCACGAGGGTGAAGCGTGGCTGGGGCTCAGCGGCCAGTACTCCACTATG  
 CTCTACGCTCAGCGTGAAGCCACATCCTGGCCAGCCACAATCCCAGAAATCCCCTCTTTCTCTATGTGG  
 CCTCCAGGCAGTACACACGCCCCACAGTACCTCGAGAATACCTATACCGCTACCGCAGGATGGGCAA  
 CGTAGCACGGCGCAAGTACGACGACCATGGTGACCTGCATGGACGAGGCTGTGCGTAAATCACCTGGGCC  
 CTCAAGCGCTATGGTTTCTATAACAACAGTGTCTTCTTCCAGTGAACAATGGTGGCCAGACCTTCT  
 CAGGGGGTAGCAACTGGCCCTTCGAGGACGCAAGGGTACTTACTGGGAAGGTGGTGTGAGGGGCCCTGGG  
 TTTTGTCCACAGCCACTGCTCAAGAAAAGAGACGGACAGTCCGGCCCTGGTCCATATCACAGACTGG  
 TACCAACACTGGTGGTCTGGCAGGCGGTACTACATCAGCAGCTGATGGGCTGGATGGCTATGATGTAT  
 GGCCAGCCATTAGTGAAGGGCCGGCCTCACCACGACAGAGATCCTACACAACATCGACCCCTCTACAA  
 CCATGCCCGGCATGGATCCTTGGAGGGTGGCTTTGGGATCTGGAATACAGCAGTGCAGGCTGCTATCCGA  
 GTTGGGGAGTGGAAAGCTGCTCACTGGAGACCCAGGCTATGGTGAAGTGGATTCCACCTCAGACACTGGCT  
 CCTTCCCTGGCAGCTGGTGAACCTGGAGCGGATGGCCAGCATCCGCCAGGCTGTGTGGCTCTTTAACAT  
 CAGTGTGACCTTACGAACGAGAGGACCTGGCTGGCCAGCGACCCGATGTAGTCCGCACCTTCTGGCT  
 CGCCTGGCTGATTATAACCGTACTGCCATCCCCGTGCGTTACCCAGCTGCGAACCTCGGGCCATCCTG  
 ACTTTAATGGGGTGTCTGGGGCCCTGGGCCAGTGAGGAGGAGGAAGAGGAGGAGGAAGAGGAGGA  
 AGGCAGAGCTAGAAGTTTCTCCCGGGTCCGCCAAGAAGAAATGCAAGATTTGCAAGCTTCGATCTTTT  
 TTCGTAACCAATACCAGGCTGATGTCCACCAGGATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224171 representing NM\_001038499  
 Red=Cloning site Green=Tags(s)

MHALSGFSLVLSLSLGYLSWDWAKPGLVADGPAEAGDQPSVAPPQPHIIFILTDQGYHVDVGYHGSIDIE  
 TPTLDRLAAEGVKLENYIPICTPSRSQLLTGRYQIHTGLQHSIIRPRQPNCLPLDQVTLPLQKLQEAGY  
 STHMVGKWHLGFYRKECLPTRRGFDLFLGSLTGNVDYYTYDNCDDGPGVCGFDLHEGESVAWGLSGQYSTM  
 LYAQRASHILASHNPQNPLFLYVAFQAVHTPLQSPREYLRYRTMGNVARRKYAAMVTCMDEAVRNITWA  
 LKRYGFYNNSVIFSSDNGGQTFSGGSNWPLRGRKGTWEGGVRGLGFVHSPLLKKRRTSRALVHITDW  
 YPTLVGLAGGTTSAADGLDGYDVWPAISEGRASPRTEILHNIDPLYNHARHGSLEGGFIWNTAVQAAIR  
 VGEWKLITGDPGYDWIPPTLASFPGSWWNLERMASIRQAVWLFNISADPYEREDLAGQRPDVVRTLLA  
 RLADYNRTAIPVRYPAANPRAHPDFNGGAWGPWASEEEEEEEEEEEGRARSFSRGRRRKKKCKICKLRFS  
 FRKLNTRLMSHRI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<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_001038499.2</a>
<b>RefSeq Size:</b>	1722 bp
<b>RefSeq ORF:</b>	1722 bp
<b>Locus ID:</b>	545260
<b>UniProt ID:</b>	<a href="#">Q32KI9</a>
<b>Cytogenetics:</b>	18 E1
<b>Gene Summary:</b>	Displays arylsulfatase activity at neutral pH, when co-expressed with SUMF1; arylsulfatase activity is measured in the secretion medium of retinal cell line, but no activity is recorded when measured in cell extracts.[UniProtKB/Swiss-Prot Function]