

## Product datasheet for **MG209526**

### Actr8 (NM\_027493) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Actr8 (NM_027493) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Actr8
Synonyms:	5730542K05Rik; ARP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209526 representing NM\_027493  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCCAAGCCGAGAAGGGGACGCGGAGAACGGGAAGGAGAAGGGCGGGAGAAGGAGAAGGAGCAGC  
 GCGGCGTGAAGCGGCCATCGTACCCGCGTTGGTCCCGAGTCGCTGCAGGAGCAAATCCAGAGCAACTT  
 CATTGTTGTCATACCCAGTTCAACAACTCTAAGACTTGCGCGAGCCACAGATACACTCCGGTCAGT  
 GTTCTCACGTCATTGCACGAAGACACAAACAAGGGCAGCCCTGTACAAGGACAACTGGTCTCTAA  
 GGAAGGACTAAATAACCTGAAAGTAATGAACAAAGACAAAATGGCCTTAAAAATGGTGGACCAGGCAAT  
 ATGGTCTAAAAAGATGTCAAACGGTACAAGGCGGATCCCTGTGTACCAGAACAGACACGCTCTACAAC  
 AAGCAGATGCGACCTGCCATTCTAGATCACTGTTCTGAAAACAAATGGACAAACACATCTCAGCAGCCTG  
 AGTATTTGGTAGGAGAAGAGGCCTTGTATGTTAACCCCTGGACTGTTACAACATTCAGTGGCCTATCAG  
 AAGGGGTCACTGAACATCCACCAGGCCCGGAGGCTCCCTCACAGCTGTTCTGGCAGACATTGAAGTG  
 ATCTGGTCTCATGCAATACAAAAGTATTTGGAAAATCCCACTGAAAGATTTAAAGTATTACAGGTGCATCT  
 TGTTAATTCAGATATCTATAACAAGCAGCATGTGAAAGAGCTGGTCCATATGATACTGATGAAGATGGG  
 CTTGCGAGGGATTGGTCCATCAGGAGTCTGTGTGCGCTACGTTTGGGAGCGGCTTGAGCAGCACCTGT  
 GTTGTAGATGTTGGGACCAGAAAACAAGTGTGTGCTGTGTAGAGGATGGGGTGTCTCATCGGAACACAC  
 GGCTTTGTCTGGCCTATGGGGCTCTGACGTGTGAGGTTGTTTTACTGGCTCATGCAGCGAGCGGGATT  
 CCCTTACAGAGAGTGTGACGTGACAAAATAAATGGATTGCCTCCTTTCAGCACCTTAAAGAAACCTTT  
 TGTCAATTAGATCAGGATATCTCCGACTTCAGGACCATGAGTTTCAGATTCGGCATCCGGATCCCTG  
 CCCTGCTTTACCACTTTCGATTAGGAGATGAAAAGCTCCAGGCTCCAATGGCGCTTTTTTACCCGCAAC  
 CTTTGGGATCGTGGGACAGAAGATGACCACTCTGCAGCACAGGTCCAGGGAGACCCTGAGGATCCCCAT  
 GATGAGCACTACCTGCTGGCCACCAGAGCAAGCAAGAACAGTCTGCAAAAGCCACTGCTGACCGCAAGT  
 CTGCATCCAAACCCATTGGATTTGAAGGGGATCTGCGTGGCCAGTCTCTGATCTCCAGAAAGACTCCA  
 TTCCCAGGAGGTGGACCTGGCTTCTTCTCAGGGAGACTGTTTGTGGCGGCAATGAGTCCGAGGAAGCC  
 CTCACTGCACTGATGTCCAGGAAAACGCAATCTCGTGTGTTGAGGGGAAAGCCTTGGGCCTTGATAAGG  
 CCATCTGCACAGCGTAGACTGTTGCTCATCTGATGATACAAAAGAAGATGTATAGCTCTATCCTGGT  
 TGTGGGAGCGGTTTGTGTTTCATAAGGCTCAAGAGTTTCTCCAGCACAGAATTCTCAACAAAATGCCG  
 CCTTCATTAGGCGAATTATTGAAAACGTGGATGTGATACAAGGCCAAGGACATGGACCCCGGCTGA  
 TCGCATGGAAAGGAGGTGCACTACTGGCGTGTGTTGGACACCACTCAGGAACTGTGGATTTATCAGCGAGA  
 GTGGCAACGCTTTGGTGTCCGAATGTTACGGGAACGAGCTGCCTTTGTGTGG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209526 representing NM\_027493  
 Red=Cloning site Green=Tags(s)

MTQAEKGAENGKEKGEKEKEQKRVKRPVLPALVPESLQEQIQSNFIVVIHPGSTTLRLGRATDLPVS  
 VPHVIARRHKQQGQPL YKDNWLLREGLNKPESENEQRQNLKMVDQAIWSKKMSNGTRRIPVSPEQTRSYN  
 KQMRPAILDHCSGNKWTNTSQPEYL VGEEAL YVNPLDCYNIHWP IRRGQLNIHPGPGGSLTAVLADIEV  
 IWSHAIQKYLEIPLKDLKYRCILLIPDIYNKQHVKELVHMILMKMGFAGIVVHQESVCATFGSGLSSTC  
 VVDVGDQKTSVCCVEDGVSHRNTRLC LAYGSDVSRCFYWL MQRAGFPYRECQL TNKMDCLLLQHLKETF  
 CHLDQDISGLQDHEFQIRHPDSPALLYQFRLGDEKLQAPMALFYPATFGIVGQKMTTLQHRSQGDPEDPH  
 DEHYLLATQSKQEQSAKATADRKSASKPIGFEGLRGSSDLPERLHSQEVDLASSQGDCLMAGNESEEA  
 LTALMSRKTAI SLFEGKALGLDKAILHSVDCCSDDTKKKMYSSILVVGGLMFHKAQEFQHRILNKMP  
 PSFRRIIENVDVITRPKMDPRLI AWKGGAVLACLDTTQELWIYQREWQRF GVRMLRERAAFW

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_027493

**ORF Size:** 1872 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\\_027493.3](#), [NP\\_081769.2](#)

**RefSeq Size:** 2121 bp

**RefSeq ORF:** 1875 bp

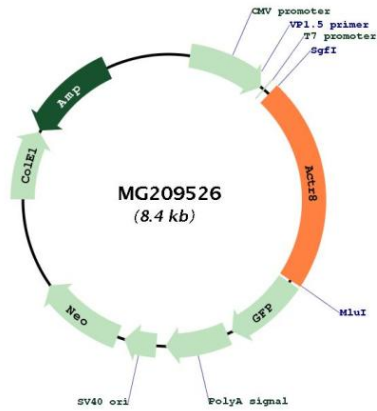
**Locus ID:** 56249

**UniProt ID:** [Q8R2S9](#)

**Cytogenetics:** 14 A3

**Gene Summary:** Plays an important role in the functional organization of mitotic chromosomes. Exhibits low basal ATPase activity, and unable to polymerize (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209526