

Product datasheet for **MG203569**

4933425K02Rik (BC025002) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	4933425K02Rik
Synonyms:	1700094G20Rik, 4933424B12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG203569 representing BC025002
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGAGCAGCAGCTAGAATCAAACAAGAAGGATGATGGTTTCCAATCATCTGTAACCTGTTGAGATGT
CCAAAGATCCTGATAGTTTTCATGAAGAACTGTGGAACCAAAACCAGAACTGAAGGAACCGGAACCAAA
GGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGA
AGGAAGGAACCAAGGAAGGTACCAGGAAGAAGGGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAGGA
TAGAAAGGAAGGAACCAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGA
AACAATTACAGATGGAGCTGCACTATTGCACTATGGACTCTACTCTGGGCCCTTATAGGTCAAGAAGTT
CTCCCTGGTGGAATTTGTTTGGACTTGTAGTTATTTTACAGTGCTTTCCTTGGGGTAAATTTTAG
AATTCATTAGAATACCTGTAGTACCTCCCTCCACCTCTCATTGGGATGTTACTGGCTGGTTTCACCAT
CAGGAATGTTCCGATTATTTATGAATTTGTCCATATTCCTACCACATGGTCTTCAGCTTTAAGAAACACT
GCCCTTACTATTATCCTAGTACGAGCTGGGCTTGGACTGGATCCACAGGCCTTGAAGCATCTGAAGGGAG
TCTGTCTGCGCTTATCATTTGGTCCATGCTTCTAGAACGCTGCTCAGCCGCTCTCTTCTCCCACTTCAT
TATGAACCTTCTTGGCAATGGGGTTCCTACTAGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



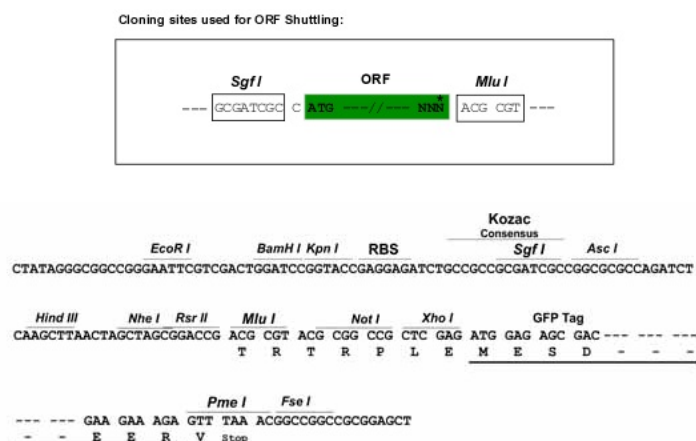
Protein Sequence: >MG203569 representing BC025002
Red=Cloning site Green=Tags(s)

MSEHDVESNKKDDGFQSSVTVEMSKDPDSFHEETVEPKPELKEPEPKEPEKPERKEPERKEPERKE
RKEPERKVPGRRETQTKETQTTEIERKETKKRGNTSYCPPQGTINKTITDGAALIALWTLWLALIGQEV
LPGGNLGFLVVIFYSAFLGGKILEFIRIPVPPPLPLIGMLAGFTIRNVPIIYEFVHIPTTWSSALRNT
ALTIIILVRAGLGLDPOALKHLKGVCRLSFGPCFLAECSAALFSHFIMNFPOWGFFLLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC025002

ORF Size: 807 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: BC025002, AAH25002

RefSeq Size: 1564 bp

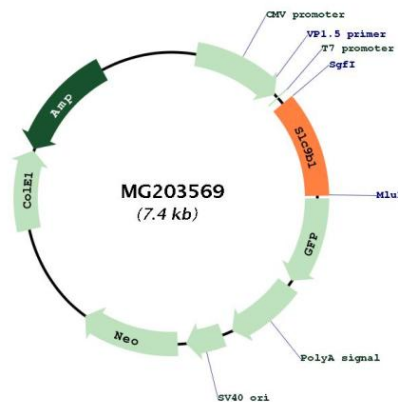
RefSeq ORF: 809 bp

Locus ID: 74446

Cytogenetics: 3 G3

Gene Summary: Sperm-specific Na(+)/H(+) exchanger involved in intracellular pH regulation of spermatozoa (PubMed:20036903). Involved in sperm motility and fertility (PubMed:20036903, PubMed:27010853, PubMed:19409551).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203569