

## Product datasheet for **MR203569**

### 4933425K02Rik (BC025002) Mouse Tagged ORF Clone

#### Product data:

|                           |                              |
|---------------------------|------------------------------|
| Product Type:             | Expression Plasmids          |
| Tag:                      | Myc-DDK                      |
| Symbol:                   | 4933425K02Rik                |
| Synonyms:                 | 1700094G20Rik, 4933424B12Rik |
| Mammalian Cell Selection: | Neomycin                     |
| Vector:                   | pCMV6-Entry (PS100001)       |
| E. coli Selection:        | Kanamycin (25 ug/mL)         |

**ORF Nucleotide Sequence:** >MR203569 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGTGAGCAGCAGCTAGAATCAAACAAGAAGGATGATGGTTTCCAATCATCTGTAACCTGTTGAGATGT  
CCAAAGATCCTGATAGTTTTCATGAAGAACTGTGGAACCAAAACCAGAACTGAAGGAACCGGAACCAAA  
GGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAGGAACCAAG  
AGGAAGGAACCAAGGAAGGTACCAGGAAGAAGGGAACCAAGGAAGGAACCAAGGAAGGAACCAAGGAAG  
TAGAAAGGAAGGAACCAAGGAAGGAAGGAAGGAAGGAACCAAGGAAGGAAGGAACCAAGGAAGGAAG  
AACAATTACAGATGGAGCTGCACTCATTGCACTATGGACTCTACTCTGGGCCCTTATAGGTCAAGAAGTT  
CTCCCTGGTGGAATTTGTTTGGACTTGTAGTTATTTTACAGTGCTTTCCTTGGGGTAAATTTTAG  
AATTCATTAGAATACCTGTAGTACCTCCCTCCACCTCTCATTGGGATGTTACTGGCTGGTTTCACCAT  
CAGGAATGTTCCGATTATTTATGAATTTGTCCATATTCCTACCACATGGTCTTCAGCTTTAAGAAACACT  
GCCCTTACTATTATCCTAGTACGAGCTGGGCTTGGACTGGATCCACAGGCCTTGAAGCATCTGAAGGGAG  
TCTGTCTGCGCTTATCATTGGTCCATGCTTCTAGAAGCCTGCTCAGCCGCTCTCTTCTCCCACTTCAT  
TATGAACCTTCTTGGCAATGGGGTTCCTACTAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR203569 protein sequence  
 Red=Cloning site Green=Tags(s)

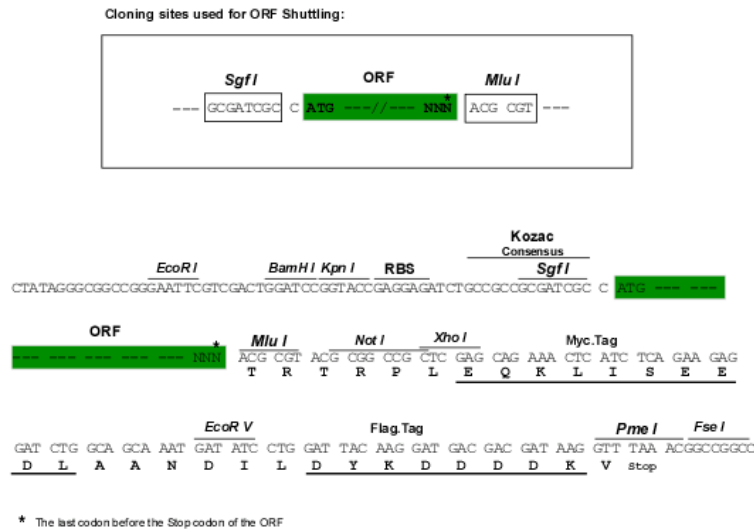
MSEHDVESNKKDDGFQSSVTVMESKDPDSFHEETVEPKPELKEPEPKEPEPKEPERKEPERKEPE  
 RKEPERKVPGRRETQTKETQTTEIERKETKKRGTSYCPQGTINKTITDGAALIALWTLWALIGQEV  
 LPGGNLFGLVVFYSAFLGGKILEFIRIPVVPPLPPLIGMLLAGFTIRNVPIIYEFVHIPTTWSSALRNT  
 ALTIILVRAGLGLDPQALKHLKGVCLRLSFGPCFLEACSAALFSHFIMNFPWQWGFLLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:

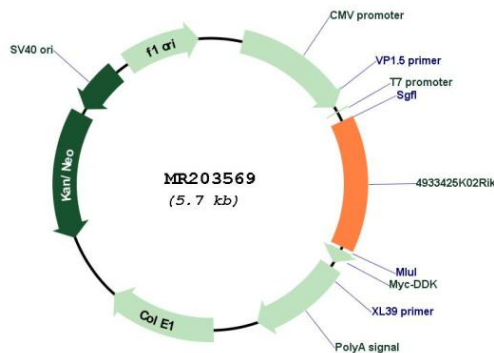
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>BC025002, AAH25002</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq Size:</b>           | 1564 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 809 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 74446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cytogenetics:</b>          | 3 G3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MW:</b>                    | 30.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | 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 MR203569