

## Product datasheet for MR205311

### Tmem206 (NM\_025864) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem206 (NM_025864) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem206
Synonyms:	2310028N02Rik; A1118576
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205311 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCGACAAGAAGCTCTCCAGTCCTACCAGGAGCTCAGCGAGGAGTTGGAGCAGGTGGTTGAGAACT  
CGGAGCAGGCAGACGAACGAGACAAGGAGCTGGTCCAAGTTCAAGGTCCAGGTGTCGTGCCAGGCGTGGA  
CAACGAGTCCGCCTCCAGCAGCATCCGCTTCAGCAAGGCTTGCCTGAAGAATGTCTTCCGGTCTGCTC  
ATCCTCATCTACCTGCTGCTCATGGCGGTGGCCGCTTTCCTGGTCTACCAGACCATCACGGACTCCGGG  
AAAAGCTCAAGCACCTGTCATGTCGGTGTCTTACAAGGAGGTGGATCGCTACGACGCTCCAGGGATTGC  
CTTTTACCCTGGTCAGGCTCAGCTGCTCAGCTGTAAAGCACCCTATGAGGTTATCCACCTCTTGCCAGC  
CCTGGCCAGCCGGGAGACAGAACTGCACCACTCAGAGGATCAATTACACCCACCCCTTCTTCAACCACA  
CCATGCAGTCAGCCCTGATTGTCCAGGGGCCCCAGGAAGTGAAGAAGCGAGAGCTGGTGTTCCTCCAGTT  
TCGCCTGAACCAGAGCAATGAGGACTTCAGTGCCATAGACTACCTCCTTCTCTTCTTTCCGGGAGTTC  
ATGCAAAGCCCGACAAGGCGGGCTTATGCAGGCCTGTGAGAGTGCTTACTCCAGTTGGAAGTTCTCCG  
GAGGCTTCCGCACCTGGGTCAAGATGCTACTGGTGAAGACCAAAGAAGAGGACGGCCGAGAAGCTGTTGA  
GTTCCGTCAAGAGACCAGCGTGGTTAACTATATTGACCAGAGACCCGAGCCGAGAGGAGTGCTCAGTTG  
TTCTTTTGGTCTTCAATGGAAGATCCCTTCCATCCAGAAGTCCAGGACATAATCACGCCAATCCTT  
GGAACACCATCGCCCTGCTCTGCGGGCTTTCCTGGCGTTGTTTAAAGCAGCAGAGTTTGCCAAACTAAG  
CGTGAATGGATGATCAAATCAGGAAACGATACCTTAAACGGAGAGGCCAGGCGACAAACCACATAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205311 protein sequence  
Red=Cloning site Green=Tags(s)

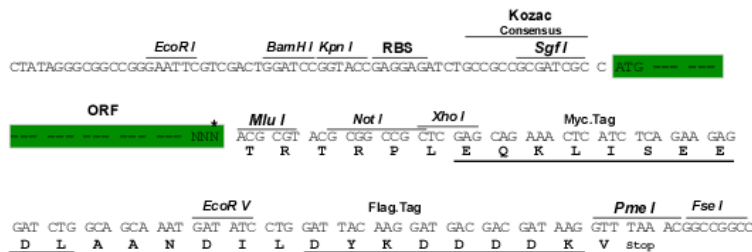
MIRQELSTSYQELSEELEQVVENSEQADERDKELVQVQGPVVPVGDNESASSSIRFSKACLKNVFSVLL  
 ILIYLLMLMAVAVFLVYQITITDFREKLKHPVMSVSYKEVDYDAPGIAFYPGAQLLCKHHYEVIPPLAS  
 PGQPGRNCTTQRINYPFFNHTMQSALIVQGPQEVKKRELVFLQFRLNQSNEFD SAIDYLLFSSFREF  
 MQSPDKAGFMQACESAYS~~SS~~WKFSGGFRTWVKMSLVKTKKEEDGREAVEFRQETS~~VV~~NYIDQRPAAERSAQL  
 FFVVF~~EW~~KDPFIQKVQDIITANPWNTIALLCGAF~~LAL~~FKAAEF~~AKL~~SVK~~WMI~~KIRKRYLKR~~RR~~QATNHIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_025864

**ORF Size:** 1053 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\\_025864.1](#), [NM\\_025864.2](#), [NM\\_025864.3](#), [NP\\_080140.1](#)

**RefSeq Size:** 4204 bp

**RefSeq ORF:** 1053 bp

**Locus ID:** 66950

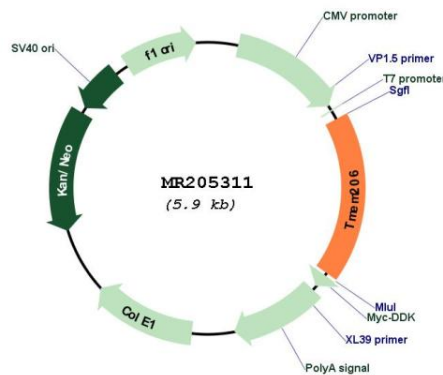
**UniProt ID:** [Q9D771](#)

**Cytogenetics:** 1 H6

**MW:** 40.2 kDa

**Gene Summary:** Proton-activated chloride channel that mediates import of chloride ion in response to extracellular acidic pH (PubMed:31023925). Involved in acidosis-induced cell death by mediating chloride influx and subsequent cell swelling (PubMed:31023925).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205311