

## Product datasheet for **MG216294**

### **Pigk (NM\_178016) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pigk (NM\_178016) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Pigk  
**Synonyms:** 3000001O05Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG216294 representing NM\_178016  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCCCCCTGCTTCCTCACTCTGCGGGTGGCTACCCTGGCCGCTTGGCGCTTTGTCTCTCGGCA  
 GCTCTGCCGCTGGACACATCGAGGATCAAGCCGAACAGTTCTTTAGAAGTGGACACAAATAACTGGGC  
 TGTTTTGGTGTGCACATCCCGATTCTGGTTAACTACCGACATGTTGCAAATACTCTTTCTGTTTATAGA  
 AGCGTCAAGAGGCTAGGTATCCCGACAGTCACATTGTCCTGATGCTTGCTGATGACATGGCGTGAATG  
 CTCGGAACCCCAAGCCAGCCACAGTGTTCAAGCACAAGAACATGGAGCTCAATGTGTATGGAGACGATG  
 GGAAGTGGACTACAGAAGCTATGAGGTAAGTGTGGAAGCTTTTTAAGGGTATTGACCGGGAGGGTTCCA  
 CCCAGTACCCCTCGCTCAAAGCGTCTTCTTTCCGACGACAGAAGCAATATCCTCATTTATATGACAGAGT  
 CCGCTCCTGCCACACCCGCTCTGGCTTTTGTCCCCCTTGGGTCGTCTTCTCAGCACATAATAGAAGTGC  
 AGATCTGCCCTTCTCTGCCGCACACTCCCAAAATCTACTTTTGAAGGATTTACTCAGTAAGTCTTTGAGT  
 CATGGAGGGAATGGTTTCTTGAATTCGAAGTCTGAAGAAATCACAACATAGAAGTTCAGATGCGT  
 TTGAACAGATGTGGCAGAAGAGACGCTACAATGAGCTGCTGTTTATTGACACTTGCCAGGGCGCGTC  
 CATGTACGAGCGGTTCTACTCTCCTAACATCATGGCCTTGGCTAGTAGCCAGTGGGAGAGGATTCGCTG  
 TCGCACCGCTGACCCGCGATTGGAGTTCATCTTATGGATAGTACACGTTTTATGCTTGGAAATTT  
 TGGAAGAAATTAATCCAGCTAGCCAAACTAACATGAACGACCTTTTTCAAGTGTGTCCCAAAGTCTCTG  
 TGTGTCGACCCCTGGACATCGCACTGACCTTTTCCAGCGAGATCCAAAAATGTCCTGATCACCGATTTT  
 TTCGGAAGTGTGCGCAAGGTGGAATCACAAACAGAGAAGATCAGTTTGCAGTGGGATTCACAAGTGTGG  
 ACAGCAGTTCTAAAGAAGACGGCACGGCCGAGGAGCGCATGGGACCTCTCAAGTATGCTGAGCAGCTCCC  
 GGTGGCTCAGATAATACACCAGAAGCCAAAGCCGAGAGACTGGCACCTCCCGGAGGCTTCATCTGGGG  
 CTGTGGGCGCTCATCATCATGGTCTTCTCAAGACCTATGGGATCAAGCATATGAAGTTCATTTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216294 representing NM\_178016  
Red=Cloning site Green=Tags(s)

MAAPCFLTLRVATLAALALLSLGSSAAGHIEDQAEQFFRSGHNTNNAVLVCTSRFWFNRYRHVANTLSVYR  
 SVKRLGIPDSHIVLMLADDMACNARNPKPATVFSHKMELNVYGDDEVDYRSYEVTVENFLRVLTGRVP  
 PSTPRSKRLLSDDRSNLIYMTESAPATPALAFVPLGSSFSAHNRTADLPFSAHSQILLKDLLSNSLS  
 HGGNGFLKFQDSEIITNIELADAFEQMWQKRRYNELLFIIIDTCQGASMYERFYSPNIMALASSQVGEDSL  
 SHQPDPAIGVHLMRDYTFYVLEFLEEINPASQTNMNDLFQVCPKSLCVSTPGHRDRLFQRDPKNVLITDF  
 FGSVRKVEITTEKISLQWDSQVVDSSSKEDGTAERMGPLKYAEQLPVAQIIHQKPKPRDWHPPGGFILG  
 LWALIIMVFFKTYGIKMKFIF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178016

**ORF Size:** 1326 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\\_178016.3](#), [NP\\_821135.1](#)

**RefSeq Size:** 4885 bp

**RefSeq ORF:** 1329 bp

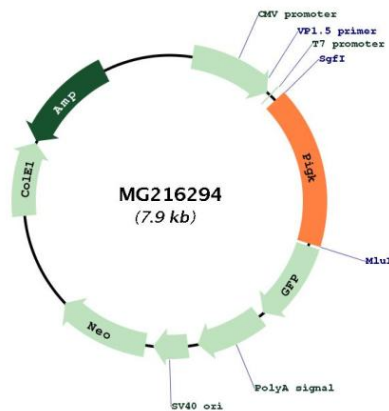
**Locus ID:** 329777

**UniProt ID:** [Q9CXY9](#)

**Cytogenetics:** 3 H3

**Gene Summary:** Mediates GPI anchoring in the endoplasmic reticulum, by replacing a protein's C-terminal GPI attachment signal peptide with a pre-assembled GPI. During this transamidation reaction, the GPI transamidase forms a carbonyl intermediate with the substrate protein (By similarity).  
[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216294