

Product datasheet for **MG202971**

Phospho2 (NM_028521) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Phospho2 (NM_028521) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Phospho2 |
| Synonyms: | 1700048E23Rik; AI661517; AU021728; AV006103; Phos2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG202971 representing NM_028521 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGTTCTGTTGGTGTGGTACTTTGACAATACAATCATAGACGACAACAGTGACACCTGGATTGTAC
AGTGTGCTCCAGACAAAAGCTTCCATTGAGCTACAAGATTCTTATCAAAGGGGCTTTGGACAGAATT
TATGGGCAGAGTCTTTAAATATTTGAGAGATGAGGGGGTAAAAGCAGATGAAGAGGGCAGTGACT
TCACTGCCCTTCACCTCAGGGATGATAGAACTTCTCAGCTTCTGAGGATGAATAAGGACAGATTTGACT
GCATCATCATTTTCGGATTCAAATCCATCTTCATAGACTGGGTTCTAGAAGCTGCTGCCTTTCACGATGT
CTTTGATCACGTGTTTACCAATCCAGCATCCTTTGATAGCAGTGGTCTCACAGTGAAAAATTACCAT
GCTCATTCTTGCACTAGGTGCCAAAGAATCTTTGCAAAAATACAGTTTTGGGAGATTTATAGATAAAC
AGTTACAAAAGGGCGTGAGATATACACGGATTGTTTATATAGGTGATGGTGGAAATGATGCTGCCAGT
AACTTTTTTAAAGAAAAATGATGTTGCCATGCCACGGGAAGGATATACTTTACATAGAATCTTGCCAAA
ATGTCTCAAAATCTTGAGCCTATGGAATCTTCTATTGTAGTTGGTCTTCAGGTGTTGAAATAATTTCTC
ATTTACAATTTCTAATAAAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202971 representing NM_028521
Red=Cloning site Green=Tags(s)

MKVLLVDFDNTIIDDNSDTWIVQCAPDKKLP IELQDSYQKGLWTEFMGRVFKYL RDEGVKADEL KRAVT
 SLPFTSGMI ELLSFLRMNKDRFDCIIISDSNSIFIDWVLEAAAFHDVFDHVFTNPASFSSGRLTVKNYH
 AHSCTRCPKNLCKNTVLGEFIDKQLQKGVRYTRIVYIGDGGNDVCPVTFLLKKNVAMPREGYTLHRTLAK
 MSQNL EPMESSIVVSSGVEIISHLQFLIKM

TRTRPLE - GFP Tag - V

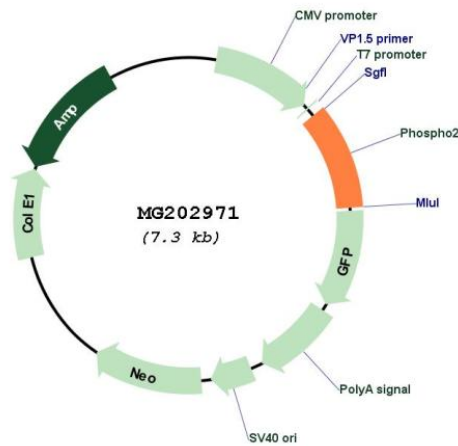
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_028521

ORF Size: 723 bp

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| 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: | <ol style="list-style-type: none">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_028521.2 |
| RefSeq Size: | 2105 bp |
| RefSeq ORF: | 726 bp |
| Locus ID: | 73373 |
| UniProt ID: | Q9D9M5 |
| Cytogenetics: | 2 C2 |
| Gene Summary: | Phosphatase that has high activity toward pyridoxal 5'-phosphate (PLP). Also active at much lower level toward pyrophosphate, phosphoethanolamine (PEA), phosphocholine (PCho), phospho-l-tyrosine, fructose-6-phosphate, p-nitrophenyl phosphate, and h-glycerophosphate (By similarity).[UniProtKB/Swiss-Prot Function] |