

## Product datasheet for **MG227402**

### **Xpr1 (NM\_011273) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Xpr1 (NM_011273) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Xpr1
Synonyms:	Rmc-1; Rmc1; Sxv; Syg1; XR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG227402 representing NM\_011273  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGTTCGCCGAGCACCTCTCCGCGCACATCACTCCCGAGTGGAGGAAGCAGTACATCCAGTATGAGG  
CATTCAAGGATATGCTGTATTCAGCTCAGGACCAGGCACCTTCAGTTGAAGTTACAGATGAGGATACAGT  
TAAGAGATATTTTCCAAGTTTGAAGAAAAGTTTTTCCAACCTGTGAAAAGGAACCTGCCAAAATCAAC  
ACATTTTATTCAGAGAAGCTGGCAGAGGCTCAGCGCAGGTTTGCTACACTTCAGAATGAGCTTCAGTCAT  
CGCTGGATGTGCAGAAAAGAAAGCAGTGGTGTACGACATTGCGACAGCGCAGAAAAGCCAGTGTCCACCT  
GTCCCACGAGGAGCGTGTCCAACATAGGAACATTAAGACCTTAAGCTGGCCTTCAGCGAGTTCTACCTC  
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ATGCAAGAAAATTAACCAGCTCATTTCTGAGACTGAGGCTGTGGTCACCAATGAACCTGAAGATGGTGAC  
AGACAAAAGGCTATGAAGCGGTTACGGGTCCTCCATTGGGAGCTGCTCAGCCTGCACCAGCATGGACTA  
CTTTTAGAGTTGGCCTATTTTGTGGAATATTCATTGTGCTGAATATTACCTTGTGTTTGCAGCTGTATT  
TAAACTTGAAACAGATAGAAGTGTATGGCCCTTGATAAGAATCTATCGGGGTGGCTTTCTTCTGATTGAA  
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AACTTAATCCAAGAAACAATTTGTCTCATCAGCATCTCTTTGAGATTGCTGGATTCTCGGGGATCTGTG  
GTGCTGAGCCTTCTGGCATGCTTCTCGCTCCAATTAGTATCATCCCTATATATGTGTATCCACTAGCC  
CTTTATGGGTTTATGGTCTTCTTTTCAACCCACCAAACTTTCTACTATAAATCCAGATTTTGGC  
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CATATGGTGTGCGAGCCATTGTTCAATGTATTCCAGCTTGGCTTCGCTTCATCCAGTGCCTGCGCCGGTA  
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ACATTTGCAGCCCTTTACAGCACTCACGAAGAACAAAATCACTCTGACACCGTGGTGTCTTTTACCTGT  
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TGATAAGAATGCAGGAGAAAACACTTTCTCCGGGAAGAAATGTATACCCTCAAAAAGCCTATTACTAC  
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AGCCTCATGTTGGGAACATCATTGCTACTGTCTTTGCCCCCTTGAGGTTTTCCGGCGATTTGTGTGGAA  
CTTCTTCCGTCTGGAGAACGAGCATCTAAATAACTGTGGTGAATTCGAGCCGTGCGGGACATCTGTG  
GCCCCCTCAACGCGGATGACCAGACACTTGGAGCAGATGATGGACCAGGAGGATGGGTTCCGAAACC  
GCCAGAAGAACCAGTCTGGAAGTACAATCAGAGCATATCCCTGCGTAGGCCCGCTGGCTTCCCAATC  
CAAGGCTCGCGACACTAAGGTATTGATAGAAGACACAGATGACGAAGCTAACACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG227402 representing NM\_011273  
 Red=Cloning site Green=Tags(s)

MKFAEHL SAHITPEWRKQYIQYEAFKDMLYSAQDQAPSVEVTDEDTVKRYFAKFEKFFQTCEKELAKIN  
 TFYSEKLAEAQRRFATLQNELQSSLDVQKESSGVTTLRQRRKPVFHL SHEERVQHRNIKDLKLA FSEFY L  
 SLILLQNYQNLNFTGFRKILKKHKILETSRGADWRVIHVEVAPFYTCCKINQLISETAEVVTNELEDGD  
 RQKAMKRLRVPP LGAAQPAPAWTTFRVGLFCGIFIVLNI TLVFAAVFKLETDRTVWPLIRIYRGGFLLIE  
 FLFLLGINTYGWRQAGVNHVLI FELNPRNLSHQHLFEIAGFLGILWCLSL LACFFAPISIIPIYVYPLA  
 LYGMVFFLINPTKTFY YKSRFWLLKLLFRVFTAPFHKVGFADFWLADQLNSLSVILMDLEYMICFYSFE  
 LKWDESKLLPNDPQEPEFCHKYSYGVRAIVQCIPAWLRFIQCLRRYRDRRAFPHLVNAGKYSTTFFTV  
 TFAALYSTHEEQNHSDTVVFFYLWVFFCISSCYTLIIDLKMDWGLFDKNAGENTFLREEIVYPQKAYYY  
 CAIIEDVILRFAWTIQISITATFKPHVGNIIATVFAPLEVFRFVWNFFRLENEHLNCCGEFRAVRDISV  
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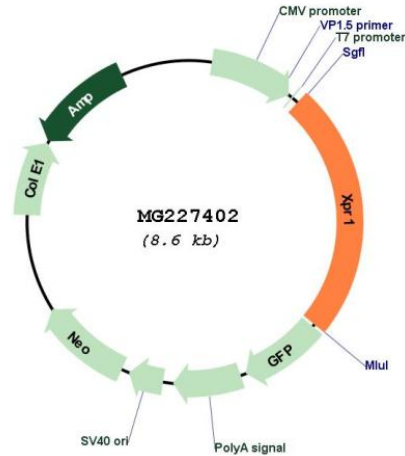
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_011273

**ORF Size:** 2085 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\\_011273.2](#), [NP\\_035403.1](#)

**RefSeq Size:** 7651 bp

RefSeq ORF: 2088 bp

Locus ID: 19775

UniProt ID: [Q9Z0U0](#)

Cytogenetics: 1 66.49 cM

**Gene Summary:** Plays a role in phosphate homeostasis. Mediates phosphate export from the cell. Binds inositol hexakisphosphate (Ins6P) and similar inositol polyphosphates, such as 5-diphospho-inositol pentakisphosphate (5-InsP7); these are important intracellular signaling molecules (By similarity). Potential receptor for xenotropic and polytropic murine leukemia retroviruses (PubMed:10516044, PubMed:9988277).[UniProtKB/Swiss-Prot Function]