

Product datasheet for **MC224024**

Impg2 (NM_174876) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Impg2 (NM_174876) Mouse Untagged Clone
Tag: Tag Free
Symbol: Impg2
Synonyms: IPM200; PG10.2; Rsbp; Spacrcan
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224024 representing NM_174876
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATTATGTTTCTCCCTGTGGGGAGGATGTCTCTGGGCATTTTGATACTTTTCCTGACAGGAGGAAACC
TTGTATCAGCCTCAGAAGAGAGACAAGAAGCCATGCATGCCGTCTCTGTCCTCTCACCTGAGAAGTCAAC
AGACCTTTCCCTGCTACCAGGAAGAGGCAGCTTTTGGATGCCACGGAGACTGGGAGGAGGTGGCTGCTT
AGAAGGCGGCGATCTATTCTGTTCCAAATGGAGTAAAAATTTGCTCCAGTGAAACCGTTGACAGAGGCTG
TGGCAAACCATGTGAAGTATTTAAAGCCCAGTGTGCCAGGAAGCCATCTGGGAAGCCTTCAGGACGTT
TTGGGATCGACTTCTGGGCGTGATGAATATCGTCACTGGATGAATTTATGTGAGGATGGAGTCAACAAGT
GTATTTGAAATGGGCGCCATTTTAGTCAGTCTGTGGAACATAGAAACCTAATCATGAAGAACTGGCTT
ACACAAGGGAAGCTGAGAGCAGCTCCTGCAAGGATCAGTCTGTGGGCTGAGTTGTCCTTTCCAGTTCC
TATTGGTGAGACCTCAACTGACAGGTGCTGTCTCCAGTGTCTCCTATCCAGGGTTGGCTTCGGAGAGC
AGCGCAGCGTACCGCAGGAGAGTATCAGCAATGAAATGAGAATGTGACAGAGGAGCCACACAACCCAG
CTGCTGAACAGATTGCGGAATTCAGCATCCAATCTGGGGAAGCGATACAGTGAAGAACTGCGGGATCC
CTCCAGCGCCCTTACCGGCTCCTCGTGAAGAGTTTATTTTTCAGAGGTTGAAAAAGCATTACAGGGTTA
CCTGGCTACAAGGCATCCGTGTTCTGGAATTCAGGGCCCCGGAGGAAAATGACAGTGGGATAGATGTTT
ACTATGCAGTTACCTTCAATGGCGAAGCCATCAGCAATACCACCTGGGACCTCATAAGCCTTCACTCCAA
CAAGGTAGAAAACCATGGCCTTGTAGAGATGGATGATAAACCCTGCTGTCTATAACAATTAGTAACTTC
AGAGATTATATCGCTGAGACGCTGCACCAGAATTTTTGATGGGAAATTCCTCTTTGAATCCAGATCCCA
AGTCTCTCCAGCTCATCAATGTGAGAGGAGTTTGTCTCCCCAAACAGAGACATAGTTTGAACACCCA
AAGTTCAAGTCTCAGGTGACAACATCCTCTATTTTGGATAATACCCTTCAAGCTGAATGGCTCTCAGCA
GATACCACCACCACCACCACCATTTCACATTTGGTTTCAGCTCCAGTTCTCCCTCAGCCACTG
GCAGGGAAGTCCAGTACAAAGTCTTTGCGTGACGTAGTGTCTACCTCCAAGTTAGCTTCTCCACGAA
GGTGGTCTCAGTTCTCTCCAGAGATTTAGGGGTAGCAGCTTACTTCTCATTCTGTTACCCAGCA
GTGCTTACGCTGACCTGCCTGTGGCTCCTGAGGGAAGGACTTCTGGATCGTTTATTAGAAAGTGGGT



TAGCCAGCACTGAAGAATTAGAAGATACTTCTATTGATGGATTGCCTTCAAGCCATTAATTCAACCTGT
 GCCAAAAGAAACAGTACCACCTATGGAAGACTCTGACACGGCTCTTGTCCACACCACATCTGACCTCT
 TCTGCTATAGAAGACCTTACTAAAGACATAGGGACACCTTCTGGCTTGGAGTCCCTGGCTCCAACATCT
 CAGACCAGTTGGAAGTATCCCATGGTTCCAGACACCTCTGTGGAAAAAGACTTCATTTTTGAAAGTGG
 CTTGGGTCTGGGTCTGGGAAAGATGTAGATGTGATTGATTGGCCATGGAGTGGAGTTCATTAGAGAAG
 ACCACTAAACCACTGTCAAAGTCATGGTCTGAAGAACAGGATGCACATTAACCACTGAGGGTAGAGAAA
 AATTACATATAGATGGCAGAGTAGATCCACAGAACAAATATTGAATCATCAGAACATAGATATGGAGA
 TAGGCCCATACATTTTATAGAGGAAGAATCCCATGTTAGATCTACTATACCCATCTTGTAGAGTCCGCA
 ACTCCACCTACATCTCCAATCTTTTCAAAAACACTTCAGATGTACCAGACATTGATTCTTACTCACTTA
 CCAAACCACCTTCTTACCGTAACTATAGCAATCCCTGCTTCCACTAAGAAAACAGATGAGGTAICTCAA
 GGAAGATAGGTACATACAGAATCATCCAGTCACAAAAGAACTTGACAGTGGGTTCCAGTGTCAAGGCCA
 GATATGCAGCCTGTGTGGACCATGTTGCCAGAATCAGATACAGTTTGGACAAGAAGTCTTCTTCTAGGGA
 AATTGTCCAGAGACATTGGCAAGTACACCAGAGAGCACTGACAGACTCTGGTTGAAAGCTTCCATGAC
 ACAGTCCACTGAATTGCCTTCAACCACCACTCCACCCAGCTAGAGGAGGAAGTAATAATGGCGTCCAG
 GATATTTTATTAGAACTAGATCAGGTAGGCACAGATTATTATCAGTCCGAGCTAACTGAAGAACAACATG
 GCAAGGCTGACAGCTATGTGAAATGTCTACCAGTGTCTACTACAGAGATGCCTATTGTGGCTCTGCC
 CAAAAAGGAGGTGTCTTGTGATCACACCAGACTGCAGGAGCATTGGTGGTTTTCTTTCAGCCTCCGCGT
 ACAAACATGTTGTTTTGAGAAGACTTGTTAACAAAACTCTTTGGAATATAAAGCCCTGGAACAAAGAT
 TCTTAGAACTGCTGGTCCCTATCTCCAGTCAAATCTGTCCAGGTTCCAGAACCTAGAAATCCTGAGTTT
 CAGAAACGGCAGCATTGTGGTGAACAGCCGAGTGGGTTCCGCGAGTCTGCCCTCCTAATGTCAACAAG
 GCCATGTATAGGATTCTGGAAGACTTTTGTACCACTGCCTACCAAACCTGAAGTGGATATCGATAAGT
 ACTCCCTGGACGTGGAATCAGGTGATGAGGCCAACCTTGCAAGTTTTCAGGCCTGTAATGAATTTCTGA
 GTGTTTGGTAAATCCATGGAGTGGAGAAGCAAGTCAAATGCTACCCTGGTACCTGAGTGTGGATGAA
 CTGCCTTGTCAAAGTCTCTGTGATCTACAGCCTGACTTCTGCTTGAACGATGGAAGTGTGACATTATGC
 CTGGGCATGGAGCCATTTGTAGATGCCGGTGGTTCAAAGTGGTGTATCGAGGCCAACACTGTGAGGA
 GTTTGTGTCTGAGCCCTTGTATAGGCATCACTATAGCCTCTGTGGTTAGCTTTCTCCTTGTGCTTCT
 GCTGTCGTCTTCTTCTTGTGAAGATGCTTCAAGCTCAGAAATGTCAGGAGAGAAAGGCAGAGGCCACCA
 GCTCCAGCAGGCACCCTGACAGTCTGTCATCTGTTGAGAATGCTATGAAGTATAACCCTGCATATGAGAG
 CCCTTGGCTGGATGTGAAGTGTATGAGAAATCCTATAGCCAACATCCCTTCTATAGCTCTGCTAGTGAA
 GAGGTGATTGGTGTCTGAGCAGAGAAGAAATCAGACAGATGTATGAAAGTAGCGACCTTCCAAGAGG
 AAATCAAGAGAGAATGAGGATTTTGAAGTCTATGCTAATGATCCTGAGTTTGCAGCTTTGTGAGAGA
 GCATCAAATGGAGGAGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_174876

Insert Size:

3732 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_174876.3](#), [NP_777365.2](#)

RefSeq Size: 6992 bp

RefSeq ORF: 3732 bp

Locus ID: 224224

UniProt ID: [Q80XH2](#)

Cytogenetics: 16 C1.1

Gene Summary: Chondroitin sulfate- and hyaluronan-binding proteoglycan involved in the organization of interphotoreceptor matrix; may participate in the maturation and maintenance of the light-sensitive photoreceptor outer segment. Binds heparin.[UniProtKB/Swiss-Prot Function]