

Product datasheet for **MG205434**

Impad1 (NM_177730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Impad1 (NM_177730) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Impad1
Synonyms:	1110001C20Rik; AA408880; AI451589; AL022796; B230207P20; gPAPP; Jaws
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205434 representing NM_177730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCATGGGCATCCGCCTGTCCCCGCTGGGGTGGCCGTATTTTTCTGCTGGGGCTCGGGGTGC
TCTACCACCTCTACTCGGGCTTCTGGCCGGCCGCTTCAGCCTCTTCGGCCTGGGCAGCGAGCCGGCGGC
AGGGGAGCCGAGGTGGCGTCCGACGGGGCACGGTGGACCTGCGCGAGATGCTGGCCGTGGCCGTGCTG
GCGGCCGAGCGCGCGGCGACGAGGTGAGGCGGGTCCGCGAGAGCAATGTCTTACGAGAAGTCCAAGG
GGAAGACGCGCGAGGGCGCCGATGATAAGATGACCAGCGCGACGTACTGTCCAACCGCAAGATGTTCTA
CCTGCTCAAGACGGCCTTCCCCAACGTGCAGATAAATACTGAGGAACATGTGGATGCCTCTGACAAGGAG
GTCATTGTATGGAACCGGAAGATTCCTGAGGACATCCTGAAGGAAATCGCTGCTCCTAAGGAGGTACCAG
CAGAAAGTGTGACAGTTTGGATTGACCCACTTGATGCTACACAGGAATACACAGAGGATCTTCGAAAGTA
TGTCACTACCATGGTGTGTAGCTGTGAATGGCAAACCTGTGTTAGGAGTTATTCATAAGCCATTTTCT
GAATATACAGCTTGGCAATGGTAGATGGTGGTCAAATGTGAAAGCCGTTCTTCTACAATGAGAAGA
CCCCAAAGATCATTGTGTCTCGCTCTCATGCAGGAATGGTCAAACAGGTGCTCTTACAGCGTTTGGAAA
CCAGACTTCAATTATCCAGCTGGGGGTGCTGGTTATAAAGTTTTAGCACTCTTGGATGTGCCTGATATG
ACTCAAGAAAAAGCAGATCTATATTTTCATGTGACATACATCAAAAAGTGGGATATATGTGCTGGCAATG
CCATCTTAAAAGCCCTTGGTGGCCATATGACCCTCTGAATGGAGAAGAGATCAGTTACACTGGGTCTGA
TGGCATTGAAGGGGGACTTCTTGCTAGCATCAGAATGAACCACCAAGCTCTGGTCAGAAACTTCCGGAT
TTAGAAAAGTCAGGACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205434 representing NM_177730
 Red=Cloning site Green=Tags(s)

MAPMGIRLSPLGVAVFFLLGLGVLYHL YSGFLAGRFSLFGLGSEPAAGEAEVASDGGTVDLREMLAVAVL
 AAERGGDEVRRVRESNLVHEKSKGKTREGADDKMTSGDVL SNRKM FYLLKTAFPNVQINTEEHVDASDKE
 VI VWNRKIPEDILKEIAAPKEVPAESVTWIDPLDATQEYTEDLRKYVTTMVCVAVNGKPV LGVIHKPFS
 EYTAWAMVDGGSNVKARSSYNEKTPKII VSRSHAGMVKQVALQTFGNQTSIIPAGGAGYKVLALLDVPDM
 TQEKADLYIHVTYIKKWDICAGNAILKALGGHMTTLNGEEI SYTGS DGI EGGLEASIRMNHQALVRKLPD
 LEKSGH

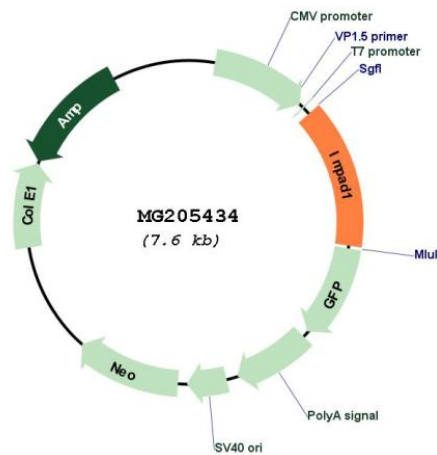
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177730

ORF Size:	1068 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:	<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_177730.4
RefSeq Size:	4636 bp
RefSeq ORF:	1071 bp
Locus ID:	242291
UniProt ID:	Q80V26
Cytogenetics:	4 A1
Gene Summary:	May play a role in the formation of skeletal elements derived through endochondral ossification, possibly by clearing adenosine 3',5'-bisphosphate produced by Golgi sulfotransferases during glycosaminoglycan sulfation.[UniProtKB/Swiss-Prot Function]