

Product datasheet for **MG204502**

Pitx1 (NM_011097) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pitx1 (NM_011097) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pitx1
Synonyms:	Bft; P-OTX; Potx; Ptx1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204502 representing NM_011097 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGCCTTCAAGGGAGGCATGAGCCTGGAGAGGCTACCGGAGGGGCTGCGGCCACCGCCACCACCAC
CGCACGACATGGGGCCAGCTTCCACCTGGCCCGCGCCGACCCCGGGAGCCGCTGGAGAATCCGC
CAGCGAATCGTCCGACGCTGATCTGCCAGACAAGGAGCGCGGTGGGAAGCCAAGGGCCAGAGGATGGT
GGCGGGCAGTCTGGCTGCGGCGCGGTGCAGAGGACCCAGCTAAGAAGAAGAAACAGCGCGGCAAC
GCACTCACTTACAAGCCAGCAGTTGCAAGAGCTGGAGGCCACGTTCAAAGGAACCGCTACCCGACAT
GAGCATGAGAGAGGAGATCGCGGTGTGGACCAACCTCACTGAACCGGAGTGCAGGCTCTGGTTCAAGAAC
CGGCGAGCCAAATGGCGCAAGCGGGAGCGGAACAGCAGTTGGACCTGTGCAAGGGCGGCTATGTGCCGC
AGTTCAGCGCCCTGGTGCAGCCCTACGAGGACGTGTACGCTGCCGGCTACTCCTACAACAACTGGGCGGC
CAAGAGCCTGGCCCCGGCGCCGCTGTCTACCAAGAGCTTACCTTCTTCAACTCCATGAGCCCGCTCTCC
TCTCAATCCATGTTCTCGGCCCCAGCTCCATCTTCCATGACCATGCCGTCCAGCATGGGCCCCGGCG
CCGTGCCCGGCATGCCAACTCGGGCTCAACAACATCAACAACCTACCCGGCTCCTCGTCAACTCGGC
CATGTGCGCGGGCGCCTGCCCTACGGCACCCAGCCTCGCCCTACAGCGTCTACCGGGACAGTGAAC
TCGAGCCTTGCCAGCCTGCGGCTCAAGTCCAAGCAGCACTCGTCGTTGGCTATGGCGGTCTGCAGGGTC
CGCGCTCGGGCTCAACGCTTGCCAGTACAACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204502 representing NM_011097
 Red=Cloning site Green=Tags(s)

MDAFKGGMSLERLPEGLRPPPPPHDMGPSFHLARAADPRELENSASESSDADLPDKERGGEAKGPEDG
 GAGSAGCGGAEDPAKKKQRRQRTHFTSQQLQELEATFQRNRYPDMSMREEIAVVTNLTEPRVRVWFKN
 RRAKWRKRERNQQLDLCKGGYVPQFSGLVQPYEDVYAAAGYSYNNWAAKSLAPAPLSTKSF TFFNMSPLS
 SQSMFSAPSSISSMTMPSSMGPVAVPGMPNSGLNNINNL TGSSLSNSAMSPGACPYGTPASPYSVYRDTCN
 SSLASLRLLKSKQHSSFGYGLQGPASGLNACQYNS

TRTRPLE - GFP Tag - V

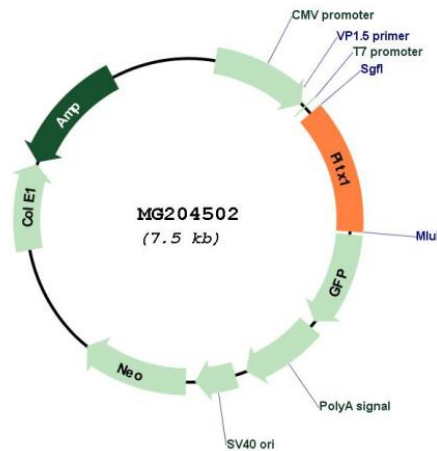
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011097

ORF Size: 945 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_011097.2 , NP_035227.1
RefSeq Size:	2448 bp
RefSeq ORF:	948 bp
Locus ID:	18740
UniProt ID:	P70314
Cytogenetics:	13 30.06 cM
Gene Summary:	Sequence-specific transcription factor that binds gene promoters and activates their transcription. May play a role in the development of anterior structures, and in particular, the brain and facies and in specifying the identity or structure of hindlimb. Can independently activate and synergize with PIT-1 on pituitary-specific target gene promoters, thus may subserve functions in generating both precursor and specific cell phenotypes in the anterior pituitary gland and in several other organs. Can activate pituitary transcription of the proopiomelanocortin gene.[UniProtKB/Swiss-Prot Function]