

Product datasheet for **RR212470**

Pitx1 (NM_053624) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Pitx1 (NM_053624) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Pitx1
 Synonyms: Bft
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR212470 representing NM_053624
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCCTTCAAGGGAGGCATGAGCCTGGAGAGGCTACCGGAGGGGCTGCGGCCACCGCCACCGCCGC
 CACACGACATGGGGCCAGCTTCCACCTGGCCCGCACCGCGACCCCGGGAGCCGCTGGAGAACTCAGC
 CAGCGAGTCATCCGACGCCGATCTGCCAGACAAGGAGCGCGGTGGAGAGGCCAAGGTGCCTGAGGATGGC
 GCGCGGGCAGCGCTGGCTGCGGCAGCGCGGAAGACCCAGCCAAGAAGAAGAAACAGCGGCGTCAACGCA
 CTCACTTCAACAAGCCAGCAGTTGCAAGAGCTGGAGGCCACGTTCCAAAGGAACCGTACCCGGACATGAG
 CATGAGAGAGGAGATCGCGGTGTGGACCAACTCACTGAGCCGCGAGTGC GGCTCTGTTCAAGAACCGG
 CGAGCCAAGTGGCGCAAGAGGGAGCGGAACCAGCAGTTGGACCTGTGCAAGGGCGGCTACGTGCCGAGT
 TCAGCGGCTTGGTGCAGCCCTACGAGGACGTGTACGCCGCGCGGCTACTCCTACAACAACTGGGCCG
 CAAGAGCTTGGCACCGGCGCCGCTGTCCACCAAGAGCTTACCTTCTTCAACTCCATGAGTCCGCTATCC
 TCTCAGTCCATGTTCTCGGCCCCAGCTCCATCTTCCATGACCATGCCATCCAGCATGGGCCCGGGCT
 CCGTGCCCGGCATGCCAACTCGGGCCTCAACAACATCAACAACCTCACGGGCTCCTCGTCAACTCGGC
 CATGTGCGCCGGGCGCCTGCCCTACGGCACCCCGCCTCGCCCTACAGCGTCTACCGGGACACGTGCAAC
 TCGAGCCTCGCCAGCCTGCGGCTCAAGTCCAAGCAGCACTCCTCGTTTGGCTACGGCGGTCTGCAGGGT
 CAGCGTGGGCCCTCAACGCCCTGCCAGTATAACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212470 representing NM_053624
Red=Cloning site Green=Tags(s)

MDAFKGGMSLERLPEGLRPPPPPHDMGPSFHLARTADPRELENSASESSDADLPDKERGGEAKVPEDG
 GAGSAGCGSAEDPAKKKQRRQRTHFTSQQLQELEATFQRNRPDMSMREEIAVWTNLT EPRVRVWFKNR
 RAKWRKRERNQQLDLCKGGYVPQF SGLVQPYEDVYAAAGYSYNNWAAKSLAPAPLSTKSF TFFNSMSPLS
 SQSMFSAPSSISSMTMPSSMGPVPGMPNSGLNNINNL TGSSLSNSAMSPGACPYGTPASPYSVYRDTCN
 SSLASLRLLKSKQHSSFGYGG LQGPASGLNACQYNS

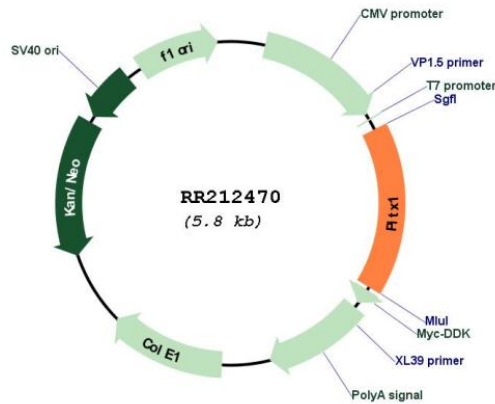
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053624

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_053624.2 , NP_446076.1
RefSeq Size:	2287 bp
RefSeq ORF:	948 bp
Locus ID:	113983
UniProt ID:	Q99NA7
Cytogenetics:	17p14
MW:	34.2 kDa
Gene Summary:	paired-like homeobox transcription factor; transcription regulator of pituitary genes; genetic marker for nascent Rathke's pouch, precursor of anterior and intermediate lobes of pituitary gland [RGD, Feb 2006]