

Product datasheet for RC210612

PITX2 (NM_153427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PITX2 (NM_153427) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PITX2
Synonyms:	ARP1; ASGD4; Brx1; IDG2; IGDS; IGDS2; IHG2; IRID2; Otlx2; PTX2; RGS; RIEG; RIEG1; RS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210612 representing NM_153427 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGACCAACTGCCGCAAAGTGGTGTGGCGTGTGTGCAATTAGAGAAAGATAAAAGCCAGCAGGGGA
AGAATGAGGACGTGGGCGCCGAGGACCCGTCTAAGAAGAAGCGGCAAAGGCGGCAGCGGACTCACTTTAC
CAGCCAGCAGCTCCAGGAGCTGGAGGCCACTTTCCAGAGGAACCGCTACCCGGACATGTCCACACGCGAA
GAAATCGCTGTGTGGACCAACCTTACGGAAGCCGAGTCCGGTTTGGTTCAAGAATCGTCGGGCCAAAT
GGAGAAAGAGGGAGCGCAACCAGCAGGCCGAGCTATGCAAGAATGGCTTCGGGCCGAGTTCAATGGGCT
CATGCAGCCCTACGACGACATGTACCCAGGCTATTCTACAACAAGTGGGCCGCCAAGGGCCTTACATCC
GCCTCCCTATCCACCAAGAGCTTCCCTTCTTCAACTCTATGAACGTCAACCCCTGTATCACAGAGCA
TGTTTTCCCAACCAACTCTATCTCGTCCATGAGCATGTCTCCAGCATGGTGCCCTCAGCAGTGACAGG
CGTCCCGGGCTCCAGTCTCAACAGCCTGAATAACTTGAACAACCTGAGTAGCCCGTCTCGTGAATCCGCG
GTGCCGACGCTGCCTGTCTTACGCGCCGCGACTCCTCCGTATGTTTATAGGGACACGTGAACCTCGA
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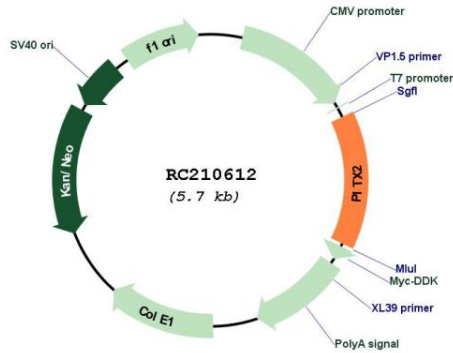
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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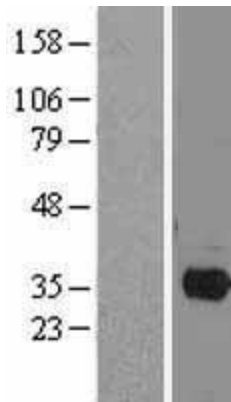
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Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex 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_153427.2 , NP_700476.1
RefSeq Size:	2122 bp
RefSeq ORF:	816 bp
Locus ID:	5308
UniProt ID:	Q99697
Cytogenetics:	4q25
Protein Families:	Transcription Factors
Protein Pathways:	TGF-beta signaling pathway
MW:	30.2 kDa
Gene Summary:	<p>This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. The encoded protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. This protein plays a role in the terminal differentiation of somatotroph and lactotroph cell phenotypes, is involved in the development of the eye, tooth and abdominal organs, and acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. Mutations in this gene are associated with Axenfeld-Rieger syndrome, iridogoniodysgenesis syndrome, and sporadic cases of Peters anomaly. A similar protein in other vertebrates is involved in the determination of left-right asymmetry during development. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC210612



Western blot validation of overexpression lysate (Cat# [LY407092]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210612 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).