

Product datasheet for **SC122698**

PITX3 (NM_005029) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PITX3 (NM_005029) Human Untagged Clone
Tag: Tag Free
Symbol: PITX3
Synonyms: ASGD1; ASMD; ASOD; CTPP4; CTRCT11; PTX3
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005029 edited
GAGCGCCCGAGCGAGAGGGCGGCCCGGGAGCAGGGGGCGGCCCCCACTCCGGCCGGGTG
CCCGGCCCTGGCCCTGCCTGCCCTCTAGATCGCCGCCGAGCCGCGCTACTGGGAGT
CTGCCTGTTGCAGGACGCACTAGCCCTCCCTCCATGGAGTTCGGCCTGCTCAGCGAGGCA
GAGGCCCGGAGCCCTGCCCTGTCGCTGTGACGCTGGCACTCCGCACCCCAAGCTCCCA
GAGCACGGCTGCAAGGGCCAGGAGCACAGCGACTCAGAAAAGGCCTCGGTTTCGCTGCC
GGCGGCTCCCAAGGACGGTTGCTGAAAAAGAAGCAGCGGGCGGAGCGCACGCACTTC
ACCAGCCAGCAGCTACAGGAGCTAGAGGCGACCTCCAGAGGAACCGCTACCCCGACATG
AGCACGCGGAGGAGATTGCCGTGTGGACCAACCTCACCGAGGCCCGCTGCGGGTGTGG
TTCAAGAACCAGCGCGCCAAATGGCGGAAGCGGAGCGCAGCCAGCAGGCCGAGCTATGC
AAAGGCAGCTTCGCGGCGCGCTCGGGGGCTGGTGCCGCCCTACGAGGAGGTGTACCC
GGCTACTCGTACGCAACTGGCCGCCAAGGCTCTTGCCCGCCGCTCGCCGCCAAGACC
TTTCCATTGCGCTTCAACTCGGTCAACGTGGGGCTCTGGCTTCGAGCCCGTCTTCTCG
CCACCCAGCTCCATCGCCGCTCCATGGTGCCCTCCGCGCGGCTGCCCGGGCACCGTG
CCAGGGCTGGGGCCCTGCAGGGCTGGGCGGGGGCCCCCGGGCTGGCTCCGGCCGCC
GTGTCTCCGGGGCCGTGTCTGCCCTTATGCCTCGGCCGCCGCCGCCGCCGCCGCTGCC
GCCTTCCCCCTACGTCTATCGGGACCCGTGTAACGAGCCTGGCCAGCCTGCCGCTC
AAAGCCAAACAGCACGCCTCCTCAGCTACCCCGCTGTGCACGGCCGCCCGCCGAGCC
AACCTTAGTCCGTGCCAGTACGCCGTGGAAGGCCCGTATGAGCGGCCCGCCCGTAGAT
CATCCCCGAGGGCGGGGCAACGATTACAGCCTCCGCGGACTGGGGTCAATTTGACTGG
CTTGCTCCCGCCCAAGGTCTGAAAGGGGTGTTTGGGAGCTGGGGGACCGGCTCAGG
AGAGGGCTTCCCTCCAGCCCTGAGGGGTGACTAGGCCCTACACACAGACCGCGCC
CTGGGACTAAAGCCAGGAACAGGGACCAGCTCCCCGGGGCCAACTACCCCTTGCCCAT
CCCGCCTTCTCAGGCTTCCCTCCCTCGTTTTCAAGATAAATGAAATAAACGTGCGCG
GACTGTCAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005029 unedited NNNNNNAAGTACACATTTGTATACGACTCACTATAGGGCGGCCGCGATTCCGGCACGAGGG AGCGCCCGAGCGGAGNAGCGGCCCGGGAGCAGGGGGGGCGCCCCCACTCCGGCCGGGTGC CCGGCCCTGGCCCTGCCTGCCCTCTAGATCGCCGCCGAGCCGCCGCTACTGGGAGTC TGCCTGTTGCAGGACGCACTAGCCCTCCCTCCATGGAGTTCGGCTGCTCAGCGAGGCAG AGGCCCCGAGCCCTGCCCTGTCGCTGTCAGACGCTGGCACTCCGCACCCCCAGCTCCCAG AGCACGGCTGCAAGGGCCAGGAGCACAGCGACTCATAAAAGGCCTCGGCTTCGCTGCCCG GCGGCTCCCAGAGGACGGTTCGCTGAAAAAGAAGCAGCGCGGCAGCGCACGCACTTCA CCAGCCAGCAGCTACAGGAGCTAGAGGGACCTTCCAGAGGAACCGCTACCCCGACATGA GCACGCGCGAGGAGATTGCCGTGTGGACCAACCTCACCGAGGCCCGCGTGCGGGTGTGGT TCAAGAACCGGCGGCCAAATGGCGGAAGCGGAGCGCAGCCAGCATGCCGAGCTATGCA AAGGCAGTTTCGCGGCCGCTCGGGGGGCTGGTCCGCCCTACGAGGAGGTGTACCCCG GCTACTCGTACGGCAACTGGCCGCCAAGGCTCTTGCCCCGCCGCTCGCCGCCAAGACCT TTCCATTCGCCTTCAACTCGGTCAACGTGGGGCCTCTGGCTTCGACGCCCGTCTTCTCGC CACCCAGCTCCATCGCCGCTCCATGGTGCCCTCCGCCGCGGCTGCCCGGGCACCGTGC CATGGCCTGGGGCCTGCAGGGCCTGGGCGGGGGCCCCNCCGGGCTGGCTCCG
Restriction Sites:	Please inquire
ACCN:	NM_005029
Insert Size:	1550 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:	<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_005029.3 , NP_005020.1
RefSeq Size:	1407 bp
RefSeq ORF:	909 bp
Locus ID:	5309
UniProt ID:	O75364
Cytogenetics:	10q24.32
Protein Families:	Druggable Genome, Transcription Factors

Gene Summary:

This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. Members of this family act as transcription factors. This protein is involved in lens formation during eye development. Mutations of this gene have been associated with anterior segment mesenchymal dysgenesis and congenital cataracts. [provided by RefSeq, Jul 2008]