

Product datasheet for **SC102436**

PATZ1 (NM_032050) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PATZ1 (NM_032050) Human Untagged Clone
Tag:	Tag Free
Symbol:	PATZ1
Synonyms:	dj400N23; MAZR; PATZ; RIAZ; ZBTB19; ZNF278; ZSG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_032050, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCGGGTGAACGACGCTTCGTGCGGCCCGTCTGGCTGCTACACATACCAGGTGAGCAGACACAGCA
CGGAGATGCTGCACAACCTGAACCAGCAGCGCAAAAACGGCGGGCGCTTCTGCGACGTGCTTTCGGGGT
AGGCGACGAGAGCTTCCCAGCGCACCCGCGCTGCTGGCCGCTGCAGCGAGTACTTTGAGTCGGTGTTC
AGCGCCAGTTGGGCGACGGCGGAGCTGCGGACGGGGTCCGGCTGATGTAGGGGCGCGACGGCAGCAC
CAGGCGCGGGGCGGGGCGAGCCGGGAGCTGGAGATGCACACTATCAGCTCCAAGGTATTTGGGGACAT
TCTGGACTTCGCCTACACTTCCCGCATCGTGGTGCCTTGGAGAGCTTCCCGAACTCATGACGGCCGCC
AAGTTCCTGCTGATGAGGTGCGTTATCGAGATCTGCCAGGAAGTCATCAAACAGTCCAACGTACAGATCC
TGGTACCCCTGCCCGCGCCGATATAATGCTCTTTCGCCCCCTGGGACCTCGGACTTGGGCTTCCCTTT
GGACATGACCAACGGGGCAGCCTTGGCAGCCAACAGCAATGGCATCGCCGGCAGCATGCAGCCAGAGGAG
GAGGCAGCTCGGGCGGCTGGTGCAGCCATTGCAGGCCAAGCCTCTTGCCTGTGTACCTGGGGTGGACC
GCTTGCCCATGGTGGCTGGACCCCTATCCCCCAACTGCTGACTTCCCCATTCCCAGTGTGGCATCCAG
TGCCCTCCCCTGACTGGCAAGCGAGGCCGGGGCGCCCAAGGAAGGCCAACCTGCTGGACTCAATGTTT
GGTCCCCAGGGGCGCTGAGGGAGGCAGGCATCCTTCCATGCGGTCTATGTGGTAAAGGTGTTCACTGATG
CCAACCGGCTCCGGCAGCACGAGGCCAGCAGCGTGTACCAGCCTCCAGCTGGGCTACATCGACCTTCC
TCCTCCGAGGCTGGGTGAGAATGGGCTACCCATCTCTGAAGACCCCGACGGCCCCGAAAGAGGAGCCGG
ACCAGGAAGCAGGTGGCTTGTGAGATCTGCGGCAAGATCTTCCGTGATGTGTATCATCTTAACCGGCACA
AGCTGTCCCACTTGGGGAGAAGCCCTACTCTGCCCTGTGTGTGGTTGCGGTTCAAGAGAAAAGACCG
CATGTCTACCATGTGCGGTCCCATGATGGTCCGTGGGCAAGCCTTACATCTGCCAGAGCTGTGGGAAA
GTTCTTCCAGGCTGATCACTGAACGGACATATCAAGCAGGTGCACACTTCTGAGCGGCTCACAAGT
GTCAGACCTGCAATGCTTCTTTTGCACCCGAGACCGTCTGCGCTCCACCTGGCCTGCATGAAGACAA
GGTGCCCTGCCAGGTGTGTGGGAAGTACTTGCGGGCGCATAACATGGCAGACCACCTGAAGAAGCACAGC
GAGGGGCCAGCAACTTCTGCAGTATCTGTAACCGAGAAGGCCAGAAATGCTCACATCAGGATCCGATTG
AGAGCTTGACTCCTATGGTGACCTCTCAGATGCCAGCGACCTGAAGACGCCAGAGAAGCAGAGTGCCAA
TGGCTCTTCTCCTGCGACATGGCAGTCCCCAAAAACAAAATGGAGTCTGATGGGAGAAGAAGTACCCA
TGCCCTGAATGTGGGAGCTTCTCCGCTCTAAGTCTACTTGAACAAACACATCCAGAAGGTGCATGTCC
GGGCTCTCGGGGCCCCCTGGGGACCTGGGCCCTGCCCTGGCTCACCTTCTCTCCTCAGCAGAAACAT
GTCTCTCCTCGATCCTTTGGTTTCAGATTGTTCAAGTGGCATTGCGTCATCTTTAGTAGATCCTGAG
GTTGACCAGCAGCCCATGGGGCCTGAAGGAAATGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032050 unedited

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ATAGGGCGCGCCCGAATTCGCACGAGGGTACACTCGGCGCACCTGCGAGACTACAGAGC
CTCGGGCCGGCACGTGTGGGAGTGTGGACAGTCTGCTGCGCCCCGCTTCTCGTGCTG
AGGGGAAGGGAGGGGGCGGGCAGGTGCAGCGCCGGGCTAGTGGGAGGGGCGGGCGCCA
TGGAGCGGGTGAACGACGCTTCGTGCGGCCCGTCTGGCTGCTACACATACCAGGTGAGCA
GACACAGCACGGAGATGCTGCACAACCTGAACCAGCAGCGCAAAAACGGCGGGCGCTTCT
GCGACGTGCTTTCGGGTAGGCGACGAGAGCTTCCCAGCGCACCCGCGCCGTGCTGGCCG
CCTGCAGCGAGTACTTTGAGTGGTGTTCAGCGCCAGTTGGGCGACGGCGGAGCTGCGG
ACGGGGGTCCGGCTGATGTAGGGGGCGCGACGGCAGCACAGGGCGGGGGCGGGGGCA
GCCGGGAGCTGGAGATGCACACTATCAGCTCCAAGGTATTTGGGGACATTCTGGACTTCG
CCTACACTTCCCGCATCGTGGTGCCTTGGAGAGCTTCCCGAACTCATGACGGCCGCCA
AGTTCCTGCTGATGAGGTGCGTTATCGAGATCTGCCAGGAAGTCATCAAACAGTCCAACG
TACAGATCCTGGTACCCCTGCCCGCGCCGATATAATGCTCTTTCGCCCCCTGAGACCT
CAGACTTGGGCTTCTTNTGNACATGACCAACGGNGCAGCCTTGGCAGNCCAACAGCATG
GCATCGCCGGCAGCATGCAGCCAGAGGGAGAGGCGAGCTCGGGCGGGTGGTGCAGCCATTG
CAGGCCAAGCCCTCTTGCTGTNGTACCTGGGGTGGACCCGCTGCCATGTNGGCTGAACA
CCCTATCC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_032050 unedited TTCTTAATATGTNCTGATCAGATCAATTCACATCACAAGGTCAACCTGGNGCTTGCTCAC ATGTGACACAACCTGAGGTACACAATGTCCTACCTGCCGGCTGTCCCACCTTCCTGGTTC CCAACAGCATTGAAACCCCTACTTCCCTGACCAGACTGGCATTTTTTAAAAATTTGCAT AAAACATTTTCTCCATAGACTTCAAACAATCACTAGCCAAGTTAATTATGGTACATCT AAACAAAGTTTAACTAACCCTAATGTGTGACTGCGGTTTACAAAGAGCTCTGTATCAC CTGGGATAGCTTTCAGTAGCAATTCACACTACAACCTGGTCCTAAAAAATAATAACAATAATA ATAATAATTAGAGAATTAACCAACAGCATGTTGAATGGTTAAATCAGTAAGAAGCT GAAATTTGGGGTGGGGTGTCTCAACAGCTGAGCTTGTCTAGCAGTAAAAATGCTCGC CTCCAAGCAGGGCTCAGAAAGGTCTGGAGCCCTNACAGGCAGAGGGCTGAGCTCAGNGGC TCTTGGAGGACTCACCCATGGTCCATGGGATGCTTCTGGCTTCTTAAAAACAGTTGG GCATNCGCATTGTATAAGTAGGTGGAGACCCTAGTGTGGGTCTTTTTGAAGGATATGGGA AGGNAGGATGACGAACANAGAAGTGGGAGGGGACCAAATCACTGAGGTCCCAGATAT CATAGATTTGGGGATAAGATTGGGGTACCTAGAATTGAGCCCCAGGATTTCCACTCCTT CCAATAAGAACTGGGACTGCTTNGCCTTGGAGGCCTATGANGGGTTTCTGCCCTGCCCA TACCAGGTTATTGAATCTGCAATATTANAGAAATTTTTTCAGACCTTGAAATGGCTC GGACAAGATTGACGGGTTGCCGCGCACCCACCATATATACTCCCGCCGACGAACATAAC TTCTCTATTTTCCCTCCCAACCCACAGTTGCTTGCAGGACCCACAGCCTTTCCTCCC CCACGGTTTTGTCCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_032050
Insert Size:	3410 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_032050.1 , NP_114439.1
RefSeq Size:	3674 bp
RefSeq ORF:	1926 bp
Locus ID:	23598
UniProt ID:	Q9HBE1
Cytogenetics:	22q12.2
Domains:	BTB, AT_hook, zf-C2H2

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene contains an A-T hook DNA binding motif which usually binds to other DNA binding structures to play an important role in chromatin modeling and transcription regulation. Its Poz domain is thought to function as a site for protein-protein interaction and is required for transcriptional repression, and the zinc-fingers comprise the DNA binding domain. Since the encoded protein has typical features of a transcription factor, it is postulated to be a repressor of gene expression. In small round cell sarcoma, this gene is fused to EWS by a small inversion of 22q, then the hybrid is thought to be translocated (t(1;22)(p36.1;q12). The rearrangement of chromosome 22 involves intron 8 of EWS and exon 1 of this gene creating a chimeric sequence containing the transactivation domain of EWS fused to zinc finger domain of this protein. This is a distinct example of an intra-chromosomal rearrangement of chromosome 22. Four alternatively spliced transcript variants are described for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate segment in the 3' coding region, compared to variant 1. The resulting protein (long A isoform) maintains the same reading frame and is shorter when compared to the long C isoform.