

## Product datasheet for **SC124801**

### **PATZ1 (NM\_032052) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PATZ1 (NM_032052) Human Untagged Clone
Tag:	Tag Free
Symbol:	PATZ1
Synonyms:	dj400N23; MAZR; PATZ; RIAZ; ZBTB19; ZNF278; ZSG
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_032052, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCGGGTGAACGACGCTTCGTGCGGCCCGTCTGGCTGCTACACATACCAGGTGAGCAGACACAGCA
CGGAGATGCTGCACAACCTGAACCAGCAGCGCAAAAACGGCGGGCGCTTCTGCGACGTGCTTTCGGGGT
AGGCGACGAGAGCTTCCCAGCGCACCCGCGCTGCTGGCCGCTGCAGCGAGTACTTTGAGTCGGTGTTC
AGCGCCAGTTGGGCGACGGCGGAGCTGCGGACGGGGTCCGGCTGATGTAGGGGCGCGACGGCAGCAC
CAGGCGCGGGGCGGGGCGAGCCGGGAGCTGGAGATGCACACTATCAGCTCCAAGGTATTTGGGGACAT
TCTGGACTTCGCCTACACTTCCCGCATCGTGGTGCCTTGGAGAGCTTCCCGAACTCATGACGGCCGCC
AAGTTCCTGCTGATGAGGTGCGTTATCGAGATCTGCCAGGAAGTCATCAAACAGTCCAACGTACAGATCC
TGGTACCCCTGCCCGCGCCGATATAATGCTCTTTCGCCCCCTGGGACCTCGGACTTGGGCTTCCCTTT
GGACATGACCAACGGGGCAGCCTTGGCAGCCAACAGCAATGGCATCGCCGGCAGCATGCAGCCAGAGGAG
GAGGCAGCTCGGGCGGCTGGTGCAGCCATTGCAGGCCAAGCCTCTTTCCTGTGTACCTGGGGTGGACC
GCTTGCCCATGGTGGCTGGACCCCTATCCCCCAACTGCTGACTTCCCCATTCCCAGTGTGGCATCCAG
TGCCCTCCCCTGACTGGCAAGCGAGGCCGGGGCGCCCAAGGAAGGCCAACCTGCTGGACTCAATGTTT
GGTCCCCAGGGGCGCTGAGGGAGGCAGGCATCCTTCCATGCGGTCTATGTGGTAAGGTGTTCACTGATG
CCAACCGGCTCCGGCAGCACGAGGCCAGCAGCGTGTACCAGCCTCCAGCTGGGCTACATCGACCTTCC
TCCTCCGAGGCTGGGTGAGAATGGGCTACCCATCTCTGAAGACCCGACGGCCCCGAAAGAGGAGCCGG
ACCAGGAAGCAGGTGGCTTGTGAGATCTGCGGCAAGATCTTCCGTGATGTGTATCATCTTAACCGGCACA
AGCTGTCCCACTTGGGGAGAAGCCCTACTCTGCCCTGTGTGTGGTTGCGGTTCAAGAGAAAAGACCG
CATGCTTACCATGTGCGGTCCCATGATGGTCCGTGGGAAGCCTTACATCTGCCAGAGCTGTGGGAAA
GGTTCTCCAGGCTGATCACTGAACGGACATATCAAGCAGGTGCACACTTCTGAGCGGCCTCACAGT
GTCAGACCTGCAATGCTTCTTTTCCACCCGAGACCGTCTGCGCTCCACCTGGCCTGTCATGAAGACAA
GGTGCCCTGCCAGGTGTGTGGGAAGTACTTGGGGCAGCATAACATGGCAGACCACCTGAAGAAGCACAGC
GAGGGGCCAGCAACTTCTGCAGTATCTGTAACCGAGGTCTCCAGGCACCAGGAGCCATCTGAATGGG
GGAGCAGCGTTCCTGCGCCAGGACCTATGGCAACAAAGAGGCCAGAAATGCTCACATCAGGATCCGA
TTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032052 unedited

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TTCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
GAGCTCATTTAGGTGACACTATAGAATACAAGTACTTGTCTTTTTTGCAGCGGCCGCGA
ATTCGGCACGAGGCGGGCGGAGAGGAGAGAGTGGCGCGCAGTCCAGCGAGGGCGGGGGT
GGCTATGTGGGGGGTGGTGCACCCCGCAGTCTAGACAGTCTGATCCGGGCTGGGGCGTG
TACACTCGGCGCACCTGCGAGACTACAGAGCCTCGGGCCGGCACGTGTGGGGAGTGTGA
CACGCTGCTGCGCCCGCTTCTCGCTGCTGAGGGGAAGGGAGGGGGCGGGCAGGTGCAG
CGGCCGGGCTAGTGGGAGGGGGCGGCGCCATGGAGCGGGTGAACGACGCTTCGTGCGGC
CCGTCTGGCTGCTACACATACCAGGTGAGCAGACACAGCACGGAGATGCTGCACAACCTG
AACCAGCAGCGCAAAAACGGCGGGCGCTTCTGCGACGTGCTTTCGGGTAGGCGACGAG
AGCTTCCCAGCGCACCCGCGCGTCTGGCCGCTGCAGCGAGTACTTTGAGTCGGTGTTC
AGCGCCAGTTGGGCGACGGCGGAGCTGCGGACGGGGTCCGGCTGATGTAGGGGGCGCG
ACGGCAGCACCAGGCGGGGGCCGGGGCAGCCGGGAGCTGGAGATGCACACTATCAGC
TCCAAGGTATTTGGGGACATTCTGGACTTCGCCTACACTTCCCGCATCGTGGTGCCTTG
GAGAGCTTCCCGAACTCATGACGGCCCAAGTTCCTGCTGATGAGGTGCGTTATCGAG
ATCTGCCAGGAAGTCATCAAACAGTCCAACGTACAGATCCTGGTACCCCTGCCCGGCC
GATATAATGCTCTTTCGCCCCCTGGGACCTCGGACTTGGGCTCCCTTTGGCATGACCACG
GGGCAGCC
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_032052 unedited CTTGGACGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAATGTAACAT TTTAATACAGTCTGATCAGATCAATTCACATCACAAGGTCAACCTGGGCTTGCTCACAT GTGACACAAGTACACAATGTCCCTACCTGCCGGCTGTCCACCTTCTGGTTCCC AACAGCATTGAAACCCAGTACTTCCCTGACCAGACTGGCATTAAAAATTTGCATAA AACTATTTCTCCATAGACTAGAAACAATCAACTAGCCAAGTTAATTATGGTACATCTAA ACAAAGTTAATACTAACCCCTAATGTGTGACTGCGGTTTACAAAGAGCTGTATCACCT GGGATAGCTTTCAGTAGCAATTCACTACAACCTGGTCTAAAAAATAATAACAATAAAT AATAATTAGAGAATTAACCCACAGCATGTTGAATGGTTAAAAATCACGTAAGAAGTGA AATTTGGGGTGGGAGTGTCTCAACAGCTGAGCTTGTCTAGCAGTAAAATGCTCGCCT CCAAGCAGGGCTCAGAAAGGTCTGGAGCCCTCCAGGCAGAGGGCTGAGCTCAGGGGGCTC TTGGAGGACACTCACCCATGGTCCATGGGATGCTTCTGGCTTCTAAAAACATTGGGC ATCCGCATTGTATAAGTAGGTGGAGACCCTAGTGTGGTCTTTTGAGGATATGGGAAGGC AGGATGACCAACTANAGAAGGGGAGGGACCAATCACTGTAGTCCCAGAAATCATAGA TTTGGGTATAGGAATGGGGTCACTAAGAATGAGCACCAGAATTCAGCTTCTCCATAA AGAAACTGGGACTGGTTTGCCTTGAAGCCTATGTATGNTTTTGCCTGTCCATACCAAGTC TATTGAATTTCTGCGATTCAATGAACTATTCTAGACATGGAGATGTGTGAAGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032052
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_032052.1</a> , <a href="#">NP_114441.1</a>
<b>RefSeq Size:</b>	3747 bp
<b>RefSeq ORF:</b>	1614 bp
<b>Locus ID:</b>	23598
<b>UniProt ID:</b>	<a href="#">Q9HBE1</a>
<b>Cytogenetics:</b>	22q12.2
<b>Domains:</b>	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 (3) uses an alternate splice site in the 3' coding region, compared to variant 1, that results in a frameshift. It encodes the long B isoform which has a shorter and distinct C-terminus compared to the long C isoform.