

Product datasheet for **SC101156**

PTCHD1 (NM_173495) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTCHD1 (NM_173495) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTCHD1
Synonyms:	AUTSX4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_173495, the custom clone sequence may differ by one or more nucleotides

```

ATGCTGCGGCAGGTTCTGCACAGGGGCTTGAGGACGTGTTTCTCCCGGCTCGGCCACTTCATTGCCAGTC
ACCCTGTCTTCTTCGCCTCGGCGCCGGTGCTCATCTCCATCCTGCTCGGCGCCAGCTTCAGCCGCTACCA
GGTCGAGGAGAGCGTGGAGCACCTGCTGGCGCCCCAGCACAGCCTGGCCAAGATCGAGCGCAACCTCGTT
AACAGCCTCTTCCCGGTCAACCGCTCCAAGCACCGTCTCTACTCGGACCTGCAGACCCCCGGGCGCTACG
GCCGGGTCACTCGTCACCTCCTTCCAGAAAAGCCAACATGCTGGACCAGCATCACACCGACCTGATCTTAAA
GTTGCATGCTGCTGCACCAAGATCCAGGTTCCAAGGCCTGGTTTTAATTACACGTTTGCCCATATATGT
ATCCTGAATAATGATAAGACTTGCATCGTGGATGACATAGTGCACGTCCTGGAAGAGCTAAAGAATGCTC
GGGCCACCAATCGGACCAATTTTGTATCACATACCAATCACTCACTTAAAGGACGGGAGGGCTGTGTA
CAATGGGACCAGCTTGGGGGCGTCACTGTGCACAGCAAAGACCGGGTGAATCTGCAGAGGCCATCCAG
CTCACCTACTACCTGCAGTCAATCAACAGTCTCAATGACATGGTGGCTGAGAGGTGGGAGTCCAGCTTCT
GCGACACTGTGACTGTTTCAGAAATCCAACAGCAAAGTCAAAATGTACCCTTACACGTCCTCCTCACT
GAGGGAAGATTTCCAGAAGACCAGCCGCGTATCAGAACGTTACCTGGTACCAGCCTGATTCTGGTGGTT
ACCATGGCCATCCTGTGTGCTCTATGCAGGACTGCGTCCGCAGCAAACCTGGCTAGGCCCTGCTCGGAT
TGGTGACCATAAGCCTGGCCACTCTCACTGCAGCCGGGATCATCAATCTTACTGGTGGGAAATATAATTC
CACCTTCTGGGAGTCCCTTTTGTATGCTAGGTGATGGATTATATGGGACTTTTGAAATGTTATCCTCC
TGGAGGAAAACAGAGAAGCAACATGTTAAAGAGAGAACTGCAGCAGTCTATGCAGACTCCATGCTCT
CCTTTTCTCTCACCAGTCCATGACCTGGTCACTTTGGCATAGGGGCCAGCCCTTTCAGAACATTGA
GGCAGCCAGGATTTTCTGCTGCAATTCCTGTATTGCAATCTTCTCAACTACCTCTATGACTCTCGTTT
TATGGTCCAGCCTAGTGTTCCTGGTACATAGAAAACAATTACCAGCATAGTATCTTCTGTAGAAAAG
TCCCAAAGCCTGAGGCATTGCAGGAGAAGCCGGCATGGTACAGGTTTCTCCTGACGGCCAGATTCCAGTGA
GGACACAGCTGAAGGCGAGGAAGCGAACACTTACGAGAGTCACTATTGGTATGTTTCTCAAACGCTAT
TACTGTGACTGGATAACCAACACCTATGTCAAGCCTTTTGTAGTCTCTTTTACCTATTATATTTCT
TTGCCTTAATGGGCTATCTGCAGGTGAGTGAAGGGTCAAGCCTTAGTAACATTGTAGCAACCGGACACA
AACATTGAGTACACTACTGCCAGCAAAGTACTTCAAGCACTACAGTCTGTGATTGGGTTTACATA
TATGAGTCTATAGAATACTGGAACACTAGTGTCCAAGAAGATGTTCTAGAATACCAAGGGGTTTGTGC
GGATATCCTGGTTTGGAGGCTATTTAAATTACCTTCGAAACTCAATGTATCCACTGGCTTGCCTAAGAA
AAATTTACAGACATGTTGAGGAATTCCTTTCTGAAAGCCCTCAATTTTACATTTTCAAGAGGACATC
ATCTTCTCTAAAAAATACAATGATGAGGTGCGATGTAGTGGCTCCAGAATGTTTTTGGTGGCCAAGACCA
TGGAAACAACAGAGAAGAACTCTATGATCTCTTGGAAACCTGAGGAGACTTTCTGTCACTCCAAAGT
GAAGTTCACTCGTCTTCAATCCGTCCTTTGTATACATGGATCGATATGCCTCCTCTCTGGGAGCCCCCTG
CACAACCTCTGCATCAGTGTCTTGTCTGCTCTTCTTCTCGGCATTCTGGTGGCAGATTCACTGATTA
ACGTCTGGATCACTCTCACAGTTGTGTCCTGGAGTTGGAGTGTAGGTTTCATGACATTATGAAAAGT
AGAAGTGGACTGCATTTCTGTGCTATGCTTAATTTATGGAATTAATTACACAATTGACAATTGTGCTCCA
ATGTTATCCACATTTGTTCTGGCAAGGATTTACAAGAACTAAATGGGTAAAAAATGCCCTGGAAGTGC
ATGGGGTAGCTATTTTACAGAGTTACCTCTGCTATATTGTTGGTCTGATTCCTCTTGCAGCTGTGCCTTC
AAATCTGACCTGTACACTGTTCAAGGTGCTTGTTTTAAATAGCATTGTACACCTTCTTCACTGCTTTGCC
ATTTTACCTGTGATACTGACTTTCTGCCACCCTCTAAGAAAAAAGGAAAGAGAAGAAAAATCCTGAGA
ACCGGGAGGAAATTGAGTGTGTAGAAATGGTAGATATCGATAGTACCCGTGTGGTTGACCAAATTACAAC
AGTGTGA
    
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_173495 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGGCCGGTGTCTCATCTCC
 ATCCTGCTCGGCGCCAGCTTCAGCCGCTACCAGGTCGAGGAGAGCGTGGAGCACCTGCTG
 GCGCCCCAGCACAGCCTGGCCAAGATCGAGCGCAACCTCGTTAACAGCCTTCCCGGTC
 AACCGCTCCAAGCACCCTCTACTCGGACCTGCAGACCCCGGGCGCTACGGCCGGGTC
 ATCGTCACTCCTCCAGAAAAGCAACATGCTGGACCAGCATCACACCGACCTGATCTTA
 AAGTTGCATGCTGCTGTACCAAGATCCAGGTTCCAAGGCTGGTTTTAATTACACGTTT
 GCCCATATATGTATCCTGAATAATGATAAGACTTGCATCGTGGATGACATAGTGCACGTC
 CTGGAAGAGCTAAAGAATGCTCGGGCCACCAATCGGACCAATTTTGTATCACATACCCA
 ATCACTCACTAAAGGACGGGAGGGCTGTGTACAATGGGCACCAGCTTGGGGGCGTCACT
 GTGCACAGCAAAGACCGGTGAAATCTGCAGAGGCCATCCAGCTCACCTACTACCTGCAG
 TCAATCAACAGTCTCAATGACATGGTGGCTGAGAGGTGGGAGTCCAGCTTCTGCGACACT
 GTCAGACTGTTTCAGAAATCCAACAGCANAGTCAAATGTACCCTTACACGTCTCTCTCA
 CTGAGGGAAGATNTCCAGAAGACCAGCCGCTATCAGAACGTTACCTGGTCACCAGCCTG
 ATTCTGGGTGTTACCATGGCCATNCTGTCTGCTCTATGCAGGACTGCGTNCGCAGCAAC
 CCTGGCTAGCCTGCTCGGNATGGTGACCATAGCCTGGCCACTCTACTGCGNCCGGGATAT
 CATCTTACTGGTGGGAAATATANTNNCACTTCTGGGAGTCCTTNCGTATGCTAGGCATGG
 ATATAGGGACTTTNGAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_173495 unedited
 TATGGAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTGGCAAT
 GCCTGTTTCTATCTTTAAAAAAGGAAGAACTTTGAATTTAATTGTTTCATTAACATAAT
 CTCTTTGGTCTTGATAAGACCTAAGGTGAAAATATGCCAAGCAGACATTATCACACTGTT
 GTAATTTGGTCAACCACACGGGTACTATCGATATCTACCATTTCTACACACTCAATTTCC
 TCCCGTTCTCAGGATTTTTCTTCTCTTTCTTTTCTTAGAGGGTGGCAGGAAAAGTC
 AGTATCACAGGTAATAATGGCAAAGCAGTGAAAGAAGGTGACAAATGCTATTAANAACAAG
 CACCTGAACAGGTACAGGTGAGTTTGAAGGCACAGCTGCCAGAGGAATCAGACCAACA
 ATATAGCAGAGGTAACCTGTGAAAATAGCTACCCCATGCATTCAGGGCATTTTTTTACC
 CATTAGTTCTTGAAAATCCTTGCCGAGAACAATGTGGATAACATTGGAGCACAATTG
 TCAATTTGTGTAATTAATCCCTAAATTAAGCATAGCACAGAAAATGCAGTCCAGTTCTACT
 TTCCATAATGTGATGAAACCTATCACTCCAAACTCCACGGACACAACATGTGAGAGTGATC
 CAGACGTTAATCAGTGAATCTGCCACCAGGAATGCCGAGAAGAAGAACAGGGAACAAGCA
 CTGATGCCNGAGTTGTGCAAGGGGGCTCCCCAAGAGGAGGCATATCGATCCCTGTATAC
 CAAGGGACGGATTGGAGACGATGAAACTTCACTTGNAAGTGACAGAAAACTCCCTCGG
 GTTTCCCAAGAGATCTAAAAGTCTTCTCTGTTGGTTCCATGGCCTTGCCACCAAAAAC
 TCTGGAGGCCCTCATCGACCTCTATTGTATTTTTAAAAAATAAGCCTCTGAAAAGTGG
 AAATGAGGGCTTTAAAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_173495

Insert Size:

2800 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_173495.1 , NP_775766.1
RefSeq Size:	5305 bp
RefSeq ORF:	2352 bp
Locus ID:	139411
UniProt ID:	Q96NR3
Cytogenetics:	Xp22.11
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a membrane protein with a patched domain. The encoded protein is similar to Drosophila proteins which act as receptors for the morphogen sonic hedgehog. Deletions in this gene, which is located on the X chromosome, are associated with intellectual disability and autism (PMID: 21091464, PMID: 20844286). [provided by RefSeq, Aug 2011]