

## Product datasheet for SC114440

### Palladin (PALLD) (NM\_016081) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Palladin (PALLD) (NM_016081) Human Untagged Clone
Tag:	Tag Free
Symbol:	Palladin
Synonyms:	CGI-151; CGI151; MYN; PNCA1; SIH002
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016081, the custom clone sequence may differ by one or more nucleotides

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ATGTCAGGGACCTCCTCCATGAGTCTTCTATGACTCCCTCTCAGACATGCAGGAAGAAAGCAAGAATA
CTGACTTCTTCCCGGGCCTTTCTGCTTTCCTCAGCCAGGAAGAGATAAACAAGAGTCTTGACCTGGCCCG
GAGAGCCATAGCCGACTCCGAAACAGAAGATTTTGACTCGGAAAAGGAGATCTCGCAGATTTTCAGTACT
TCTCCTGCAAGCCTCTGTGAACATCCTTCCATAAAGGAGACCAAATTTGGGTGAACACGCCTCGAGGAGAC
CTCAGGATAACAGGTCAACACCTGTCCAGCCTCTGGCAGAGAAACAACTAAGAGTATCTCTTACCTGT
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GAAAAGCGTGGTGCAAAAACCTCCAGCACAAACGTAAGCCCAAAACGCCACATCAAAGAAAGGGTGGCC
CCCAGAGCCAGCTGTGTGACAAGGCAGCTAATTTAATTGAGGAGCTAACATCCATATTTAAAGCCGCAAA
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CAAAGGAACTGCAAAACACAGCCGTGGCGGAAGGCCAGGTGGTGGTTCTGGAGTGCCGGGTCCGTGGGGC
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TGTCACCTCAGCCAACACTGAAAACGTAGTTACGAGTCAATGGGAGAATCCAACAATGACCACTTCCAA  
 CACTTTCACCTCCCCTCCAATCTTGGAGACAAGTTCCTTGGAGTTGGCTTCAAAGAAACCATCTGAGA  
 TCCAGCAGGTGAACAACCTGAGTTAGGCCTGAGCAGGGCAGCCCTTCAAATGCAATTCAATGCTGCTGA  
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 GCGGCTGGAATGTCGTGATTGGGAGTGCCACCACCTCAGATATTTTGAAGAAAGAAAATGAATCACTC  
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 CCACAAAAGAAGATGCTGGGTGGTATACTGTGTCAGCCAAGAATGAAGCAGGGATTGTGTCTGTACTGC  
 CAGGCTGGACGTTTACATTTCTCGACATTA

**5' Read Nucleotide  
 Sequence:**

>OriGene 5' read for NM\_016081 unedited  
 ATTCTTTTACTATTTTTCTATTACCATTTTTCTAGTACCATTTTTCTATTATCCTTT  
 TACTATAATTGTATATAATATGGCAGCTGCTTGCCACATGTACTATGTGGAGAGATGTAC  
 CACCCTGCATCAGCTTTTACCCTACAGAAGGAAATCAGCGTTCCATTATATTTTATTGTT  
 ATCAACAGTTTAGGAATACATAGCTTTGCTTTTGCCTTTTTCTTCCCTCCCTTGTTC  
 CCCTCGCCTCAGAGAAAAGAAGGAAAAAATTCATCTTTCCTACCCCTCTTTTTGG  
 ATGATAGGACTTGAAGACAATCTGAAATACCACATAAACTCACTTCCAGATGTTTTTTGT  
 TTCATATGCAATTGAATTGGGCTCAGACTGTGTTTTTAAGCTGTATGGTAAAAATATCAC  
 TGTCTTCTAGGCCTTATTGGGGGCAGGGAGAGACGTGACACTTTGTCAGAAGGGATTG  
 AGTCTGCTAACTTAACTTTCTTGATTACAGGAATACAAAGTCTCCAGCTGTGAACAGAG  
 ACTCATCAGTGAATAGAGTACAGGCTAGAAAGGTCTCCTGTGGATGAATCANGTATGA  
 AGTTCAGTATGGAGATGTGCCTGTGAAAATGGAATGGCACCATTCTTTGAGATGAAGCT  
 GAAACATTACAAGATCTTTGAGGGAATGCCAGTACTTTTACATGTANAGTGGCTGGAAA  
 TCCAAGCCAAAGATCTATTGGGTTAAGATGGGAAGCAGATCTCTCCAAGAGTGATCCTA  
 CACATTCAAGAGATCTCGATGGGACCTGTTNCNCTCCATACACAGC

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_016081 unedited NTTGTCGCGGTTTATTGTGTTATATCCCATTACACCAGCACAAACATCCAAGTAGTATGAT TGATTGATAGTACTTTTTTTTTTATAAATACAATATAAAGGTGGCAAAATAATGCTAGTTA ATCCCAAACCCAGCAAATCAGCAAAAAAGGTCACATTCAGAAAAATTTGCCAAGTAAGAC ATAAGTCATAATTCTACAATAGAGATAGGTCCATGAGAGACTGTGTATGGTATCTTAAAT TCCATTATTAGCAATGCATATAAGTGCCGTCAAAGAAAACCTGAACCACACTGCATAGAACA TCTGCCACCCGGTGCTCAAGCCTATTAATCACTTAAACCTTGGTTGGTTGGTGTCTTAC AAAGAAGTAGAAAAGCTGTACATGTGAAACAGTAATATGAAATATATGGGGTGGTACACAG ATATAAAATTATTTTAAAAAATACTACGTATGAATTGAGTAACTGAGCTAAGAGAGGCCA CTTATAAATAATGAAAGATACATGTGTTTTGCATAAGGAATACAGTGTCTTTCTTTTCATA GCAAAGTACCATTAAAGCCTCATGTTTTATACTACTAGGTCAAATATTTTTTCTCCTTT TAAAAATTTATCGGTTCCGACTTAAAACCATCAAGTCTGGTCAGAATCAACTCAGTCTAG CTGATGCAAAATCATATGCATTCAAAAAGCAGTCTTTACCGAGATGCCTTTACAAACCTT GGAATCCAGCACCTTCTAAGGCAAAGTTTCATGCCAGCAGGGAAGTGAACATAAATTT TCATTTACCACATCTTGGNTGTCTTTGAAAAAATACTNTATGGCACANACCTGTTTTTGG CTCCTTAGTCTCCACTTTCTTCACTAGACTAGATGCTACAGGGCATTCTCATTATG CACCATGCAGTCTCATCCATTCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016081
<b>Insert Size:</b>	4260 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_016081.1</a> , <a href="#">NP_057165.1</a>
<b>RefSeq Size:</b>	5809 bp
<b>RefSeq ORF:</b>	1215 bp
<b>Locus ID:</b>	23022
<b>UniProt ID:</b>	<a href="#">Q8WX93</a>
<b>Cytogenetics:</b>	4q32.3
<b>Domains:</b>	ig, IGc2, IG

**Gene Summary:**

This gene encodes a cytoskeletal protein that is required for organizing the actin cytoskeleton. The protein is a component of actin-containing microfilaments, and it is involved in the control of cell shape, adhesion, and contraction. Polymorphisms in this gene are associated with a susceptibility to pancreatic cancer type 1, and also with a risk for myocardial infarction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.