

Product datasheet for **RG228528**

Palladin (PALLD) (NM_001166110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Palladin (PALLD) (NM_001166110) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Palladin
Synonyms:	CGI-151; CGI151; MYN; PNCA1; SIH002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228528 representing NM_001166110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCGCGCTGGCTCCCGCTCCGCCCCCGCCATGCAGTCTCCGGCTCCTTCAACTACGCGCGCCCA
 AGCAGTTCATCGCCGCGCAGAACCTCGGGCCCGGTGGGCCACGGCACGCCGGCTCCAGCCCCAGCTC
 GTCCAGCCTCCCGTCGCCCATGTCCCGACGCCGAGGCAGTTCGGCCGCGCCCCGTGCCGCCCTTCGCG
 CAGCCCTTCGGCGCTGAGCCCGAGGCCCGTGGGGCTCCTCCTCGCCGTCGCCCCGCCCCGCCACCCC
 CGGTCTTCAGCCCCAGGCTGCCCTCCCGGTGCCGACGTGTTCCACTGCCGCCGCCACCACCGCCGT
 CCCGAGCCGGGACAGGCGTCCACTGCTGTCGCTGCCACCCGCTTCGGCCACAGCCAGACGCCCGCG
 GCCTTCTCAGCGCTCTGCTGCCCTCGCAGCCGCCCGCGGCCGTCAACGCCCTGGGGTCCCAAGG
 GTGTACCCCCGAGGATTTCAAAGAAGGCCAGTAGAACTGCTAGAATAGCCTCCGATGAGGAAATTC
 AGGCACAAAGGATGCTGTTATTCAGACCTGGAACGAAAACCTTCGCTTCAAGGAGACCTCTGAACA
 ATGGCCAGCCGAGGTTAACATACGAAGAAAAGTGGCTCGTCGACTGCTAGGTGCTGACAGTCAACTGCT
 TTAATATTCAGGAGCCAGAAGAGAAAACAGCTAATCAGGAATACAAAGTCTCCAGCTGTGAACAGAGACT
 CATCAGTGAATAGAGTACAGGCTAGAAAGTCTCCTGTGGATGAATCAGGTGATGAAGTTCAGTATGGA
 GATGTGCTGTGGAATGGAATGGCACCATTCTTTGAGATGAAGCTGAAACATTACAAGATCTTTGAGG
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 GAAGCAGATCTCCTCAAAGAGTGATCACTACACCATTCAAAGAGATCTCGATGGGACCTGCTCCCTCCAT
 ACCACAGCCTCCACCCTAGATGATGATGGAATTATAACAATTATGGCTGCAAACCCTCAGGGCCGATCA
 GTTGTACTGGACGGCTAATGGTACAGGCTGTCAACCAAAGAGGTCGAAGTCCCCGGTCTCCCTCAGGCCA
 TCCTCATGTGAGAAGGCCTCGTTCTAGATCAAGGGACAGTGGAGACGAAAATGAACCAATTCAGGAGCGA
 TTCTTCAGACCTCACTTCTTGCAGGCTCCTGGAGATCTGACTGTTCAAGAAGGAAAACCTCTGCAATGG
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 CAGTGCTCACAAGATGCTGGTGCCTGAGAACGGGGTCACTCTCTGATCATAGAGCCAGTACGTCACGT
 GATGCCGGCATCTACACATGTATAGCTACCAACCGAGCAGGACAGAACTCATTACGCTGGAGCTTGTGG
 TTGCTGCTAAAGAAGCACACAAACCCCTGTGTTTATTGAGAAGCTCCAAACACAGGAGTTGCTGATGG
 GTACCCAGTGGGCTGGAATGTCGTGTATTGGGAGTGCCACCACCTCAGATATTTTGAAGAAAGAAAAT
 GAATCACTCACTCACAGCACTGACCGAGTGAGCATGCACCAGGACAACCACGGCTACATCTGCCTGCTCA
 TTCAGGGAGCCACAAAAGAAGATGCTGGTGGTATACTGTGTGAGCAAGAAATGAAGCAGGATTGTGTC
 CTGTACTGCCAGGCTGGACGTTTACACCAAGTGGCATCAGCAGTACAGAGCACCAGCCAAAAAAGTA
 CGGCCCTCAGCCAGTCGCTATGCAGCACTTTCCGACCAGGGACTAGACATCAAAGCAGCGTTCCAACCTG
 AGGCCAACCCATCTCACCTGACACTGAATACTGCCTTGGTAGAAAAGTGAGGACCTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228528 representing NM_001166110
 Red=Cloning site Green=Tags(s)

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MSALASRSAPAMQSSGSFNYPKQFIAAQNLPASGHGTPASSPSSSLPSPMSPTPRQFGRAPVPPFA
QPFGAPEAPWGSSSPSPPPPPVFSPTAAFPVDPVFLPPPPPLPSPGQASHCSSPATRFGHSQTPA
AFLSALLPSQPPAAVNALGLPKGVTPAGFPKKASRTARIASDEEIQGTKDAVIQDLERKLRFKEDLLNN
GQPRLTYEERMARRLLGADSATVFNIQEPEEETANQEYKVSCEQRLISEIEYRLERSPVDESQDEVQYG
DVPVENGMAPPFFEMKMKHYKIFEGMPVTFTRVAGNPKPKIYWFKDGKQISPKSDHYTIQRDLDGTCSLH
TTASTLDDDGNYTMAANPQGRISCTGRLMVQAVNQGRSPRSPSGHPHVRPRSRSDSGDENEPQER
FFRPHFLQAPGDLTVQEGKLCRMDCKVSGLPTPDLQWLDGKPVPRPSAHKMLVRENGVHSLIIEPVTSR
DAGIYTCIATNRAGQNSFLELVAAAKEAHKPPVFIKQLQNTGVADGYPVRECRVLGVPVPPQIFWKKEN
ESLTHSTDRVSMHQDNHGYICLLIQGATKEDAGWYTVSAKNEAGIVSCTARLDVYQWHQSQSTKPKKV
RPSASRYAALSDQGLDIKAAFQPEANPSHLTLNTALVESEDL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166110

ORF Size: 2016 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001166110.2](#)

RefSeq Size: 4437 bp

RefSeq ORF: 2019 bp

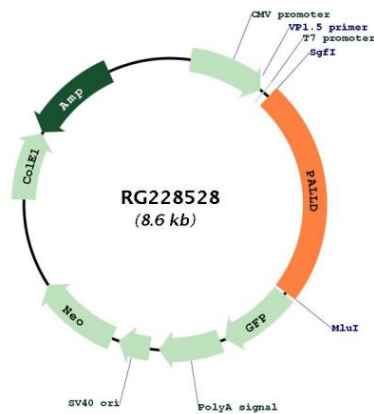
Locus ID: 23022

UniProt ID: [Q8WX93](#)

Cytogenetics: 4q32.3

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]

Product images:



Circular map for RG228528