

Product datasheet for **RG228579**

Palladin (PALLD) (NM_001166109) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)



ORF Nucleotide Sequence: >RG228579 representing NM_001166109
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCACAAGCTCAAAAGAAAACAATTCTGTTTCCTTGACAATAGGATCATCATCTCCAAAGACAGGGG
TGACCACAGCTGTGATTCAACCACTGTCTGTCCTGTGCAACAGGTTACAGTCCAACCTTCATATCTCTG
CCGACCTGATGGAACCACTACTGCCTACTTTCTCTCTGTTTTACAAAGGAACTGCAAAACACAGCCGTG
GCGGAAGGCCAGGTGGTGGTTCTGGAGTGCCGGGTCCGTGGGACCCCTCTGCAGGTCCAGTGGTTTC
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AGCTGAGGAGATTGACCCCTAGTTATCGCTGAGACTTCCCTGAAGATGCAGGGATCTTTACATGTTCA
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GCCGTGGAGTAAATGGACTGATTAAACGGCAAAGCTAACAGTAATAAATCTCTTCCAACACCACTGTCCT
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GAAAACCTTCGCTTCAAGGAGGACCTCTGAACAATGGCCAGCCGAGGTAAACATACGAAGAAAGAAATGGC
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ATCAGCAGTCACAGAGCACCAAGCCAAAAAAGTACGGCCCTCAGCCAGTCGCTATGCAGCACTTTCGGA
CCAGGGACTAGACATCAAAGCAGCGTTCCAACCTGAGGCCAACCCATCTCACCTGACACTGAATACTGCC
TTGGTAGAAAGTGAGGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228579 representing NM_001166109

Red=Cloning site Green=Tags(s)

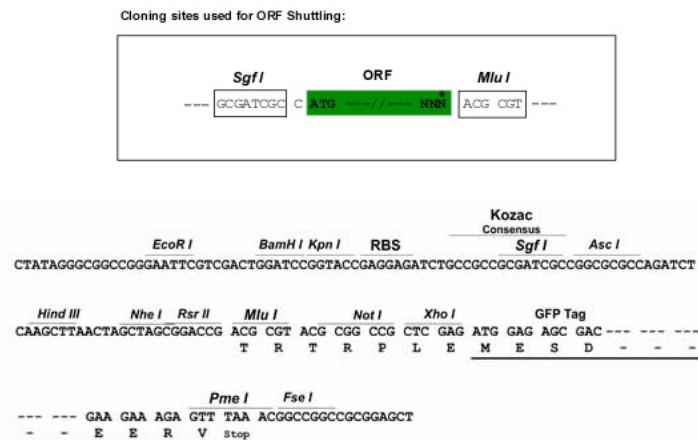
MPQAQKKTSVSLTIGSSSPKTVTTAVIQPLSVPVQVHSPTSYPDLGTTTAYFPPVFTKELQNTAV
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ARNDYGSATSTAQLVVTSAANTENCYSYEMGESNNDHFQHFPPPPPILETSSLELASKKPSEIQVNNPEL
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RTARIASDEEIQGTDAVIQDLERKLRFKEDLLNNGQRLTYEERMARRLLGADSATVFNIQEPEEETAN
QEYKVSSCEQLISEIEYRLERSPVDESGDEVQYGDVPVENGMAPPFFEMKLKHYKIFEGMPVFTTCRVAG
NPKPKIYWFKDGKQISPKSDHYTIQRDLGTCSLHTTASTLDDGNYTIMAANPQGRISCTGRLMVQAVN
QRGRSPRSPSGHPHVRPRSRSDSGDENEPQERFFRPHFLQAPGDLTVQEGKLCRMDCKVSGLPTPDL
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IEKLQNTGVADGYPVRLRCRVLGVPPPQIFWKKENESLTHSTDRVSMHQDNHGYICLLIQGATKEDAGWY
TVSAKNEAGIVSCTARLDVYTQWHQSQSTKPKKVRPSASRYAALSDQGLDIKAAFQPEANPSHLTLNTA
LVESEDL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001166109

ORF Size:

2331 bp

OTI Disclaimer:

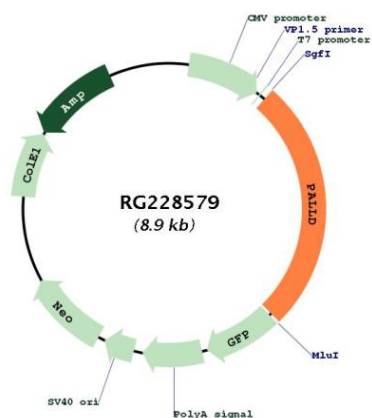
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001166109.2
RefSeq Size:	4938 bp
RefSeq ORF:	2334 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 RG228579