

Product datasheet for **RG230017**

Cadherin like 23 (CDH23) (NM_001171932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin like 23 (CDH23) (NM_001171932) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDH23
Synonyms:	CDHR23; PITA5; USH1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230017 representing NM_001171932 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCGCCATGTTGCCACCAGCTGCCACGTGGCCTGGCTTTTGGTGCTGATCTCTGGATGCTGGGGCC
AGGTGAACCGGCTGCCCTTCTTACCAACCACTTCTTTGATACATACCTGCTGATCAGCGAGGACACGCC
TGTGGTTCTTCTGTGACCCAGTTGCTGGCCAAAGACATGGACAATGACCCCTGGTGTGGCGTGTCT
GGGAGGAGGCCCTCTCGTTCTTGCAGTGGAGCCTGACACTGGCGTGGTGTGGTCCGGCAGCCACTGG
ACAGAGAGACCAAGTCAGAGTTCACCGTGGAGTCTCTGTGACGACCACAGGGGGTGATCACACGGAA
GGTGAACATCCAGGTTGGGGATGTGAATGACAACGCGCCACATTCACAATCAGCCCTACAGCGTCCGC
ATCCCTGAGAATACACCAGTGGGACGCCCATCTTCATCGTGAATGCCACAGACCCCGACTTGGGGCAG
GGGGCAGCGTCTCTACTCCTCCAGCCCCCTCCCAATCTTCGCCATTGACAGCGCCCGCGGTATCGT
CACAGTGATCCGGGAGCTGGACTACGAGACCACACAGGCCTACCAGCTCACGGTCAACGCCACAGATCAA
GACAAGACCAGGCCTCTGTCCACCCTGGCCAATTGGCCATCATCATCACAGATGTCCAGGACATGGACC
CCATCTTCATCAACCTGCCTTACAGCACCAACATCTACGAGCATTCTCCTCCGGGCACGACGGTGGCCAT
CATCACCGCCATAGACCAGGATAAAGGACGTCCCCGGGCATTGGCTACACCATCGTTTCAGGGAATACC
AACAGCATCTTTGCCCTGGACTACATCAGCGGAGTGTGACCTGAATGGCCTGCTGGACCGGGAGAACC
CCCTGTACAGCCATGGCTTCATCCTGACTGTGAAGGGCACGGAGCTGAACGATGACCGCACCCCATCTGA
CGCTACAGTCACCACGACCTTCAATATCCTGGTTATTGACATCAATGACAATGCCCGGAGTTCAACAGC
TCCGAGTACAGCGTGGCCATCACTGAGCTGGCACAGGTCGGCTTTGCCCTTCCACTCTTCATCCAGGTGG
TGGACAAGGATGAGGTGAGTCCCTGGACACATGGCCCATGCAGACCCACCACCATCCAGACCCACCACC
CTGCCTGGGCTGTTCAAGTCTCAGCTA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230017 representing NM_001171932
Red=Cloning site Green=Tags(s)

MGRHVATSCHVAWLLVLIISGCWQVNRLPFFFTNHFFDITYLLISEDTPVGSSVTQLLAQDMDNDPLVFGVS
 GEEASRFFAVEPDTGVVWLRQPLDRETKSEFTVEFSVSDHQGVI TRKVNIIQVGDVNDNAPTFHNQPYSVR
 IPENTPVGTPIFIVNATDPLDLAGAGSVLYSFQPPSQFFAIDSARGIVTVIRELDYETTQAYQLTVNATDQ
 DKTRPLSTLANLAIITDQMDPIFINLPYSTNIYEHSPPGTTVRIITAIIDQDKGRPRGIYTTIVSGNT
 NSIFALDYISGVLTLNGLLDRENPLYSHGFILTVKGTENLDDRTPSDATVTTTTFNILVIDINDNAPEFNS
 SEYSVAITELAQVGFALPLFIQVVDKDEVSPWTHGPCRPTTHPDPPLGCSGPQL

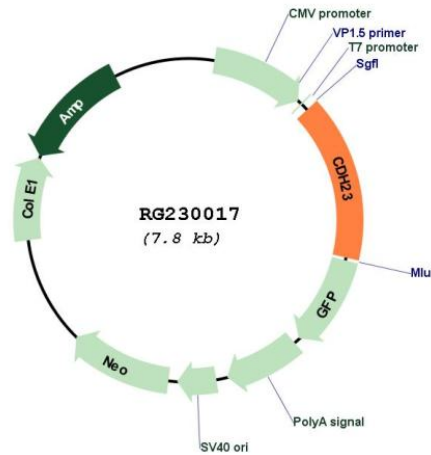
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001171932

ORF Size:	1218 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:	<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_001171932.1 , NP_001165403.1
RefSeq Size:	1746 bp
RefSeq ORF:	1221 bp
Locus ID:	64072
UniProt ID:	Q9H251
Cytogenetics:	10q22.1
Protein Families:	Transmembrane
Gene Summary:	This gene is a member of the cadherin superfamily, whose genes encode calcium dependent cell-cell adhesion glycoproteins. The encoded protein is thought to be involved in stereocilia organization and hair bundle formation. The gene is located in a region containing the human deafness loci DFNB12 and USH1D. Usher syndrome 1D and nonsyndromic autosomal recessive deafness DFNB12 are caused by allelic mutations of this cadherin-like gene. Upregulation of this gene may also be associated with breast cancer. Alternative splice variants encoding different isoforms have been described. [provided by RefSeq, May 2013]