

Product datasheet for **RG230652**

Cadherin like 23 (CDH23) (NM_001171933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadherin like 23 (CDH23) (NM_001171933) 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:	>RG230652 representing NM_001171933 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGTCCCCATGAATCGGGAGCTGGTTGCCACCTATGAGGTCCTCTCAGTGATTGACAATG
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CTGCCTTGGCCAAAGACAACCCCTGGGGATGTAGCCAGCAACCGTCGCGAAAATTCAGTGCAGGTGGTATG
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 GCACAACTTCGCGACGTGATCATGGAGACCCCTGGAGATCACAGAGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230652 representing NM_001171933
 Red=Cloning site Green=Tags(s)

MVKSPMNREL VATYEVTL SVIDNASDL PERSVSPNAKL TVNVLDVNDNTPQFKPFGITYYMERILEGAT
 PGTTLIAVAAVDPDKL NGLVTYLLDL VPPGYVQLEDSSAGKVI ANRTVDYEEVHWNFTVRASDNGSP
 PRAAEIPVYLEIVDINDNPIFDQPSYQEA VFDVVPVGTIILTVTATDADSGNFALIEYSLGDGESKFAI
 NPTTGDIIYVLSLDREKKDHYIL TALAKDNPGDVASNRRENSVQVVIQVLDVNDCRPQFSKPFSTSVYE
 NEPAGTSVITMMATDQDEGPNGELTYSLEGPVGEAFHVDMSGLVTTQRPLQSYEKFSLTVVATDGGEP
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 FIVKASSNRSWTPPRGPSPTLDLVADLTQEVVRLVLEDINDQPPRFKAEYTAGVATDAKVGSELIVQLA
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 DYLRLLKLF AQRMVQKASSCHSSI SELIQTELDEEPGDHSPGQGS LFRHKPPVELKGPDIHVHVGSTG
 TLLATDLNLSLPEEDQKGLGRSLETLTAAEATAFERNARTESAKSTPLHKL RVDVIMETPLEITEL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<u>NM_001171933.1, NP_001165404.1</u>
RefSeq Size:	4341 bp
RefSeq ORF:	3345 bp
Locus ID:	64072
UniProt ID:	<u>Q9H251</u>
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]