

Product datasheet for **RG218636**

CDHR3 (NM_152750) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDHR3 (NM_152750) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDHR3
Synonyms:	CDH28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218636 representing NM_152750
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGAAGCAATCATTCTCCTGGCTCTCCTGGTGCCATGTCAGGGGAGAAGCACTACACCTAATCC
 TCTTACCTGCTACAGGCAATGTGGCAGAGAATTCACCTGGGACTTCAGTGCACAAGTTTTCTGTGAA
 GTTATCAGCATCATTGTACCTGTGATCCAGGATTTCCCGAGATAGTCAACTCAATCCCTCACTGAA
 GCTTTTAGGGTGAATTGGCTGTCAGGCACCTACTTTGAGGTTGTCACCACTGGGATGGAACAAGTATT
 TTGAAACAGGACCAACATATTTGATTTGCAGATTTATGTGAAGGATGAGGTTGGTGTACAGACCTGCA
 AGTCTGACTGTCAGGTAACAGATGTGAACGAGCCACCTCAGTTTCAAGGCAACTTGGCAGAAGGTCTA
 CACCTCTACATAGTAGAAAGAGCAAACCCTGGATTCATTTACCAGGTTGAGGCCTTCGATCCAGAAGACA
 CAAGCCGAAACATTCCCCTCAGTATTTCTGATTTCTCCCCAAAGAGCTTCAGAATGTCTGCTAATGG
 CACCCTCTTCCACAACAGAATTGGACTTTGAAGCAGGACACAGAAGTTCCATCTCATGTGGAGGTG
 AGGGACAGTGGAGGCCTCAAAGCCTCCACAGAGCTCCAGGTGAACATCGTGAACCTCAACGACGAAGTCC
 CTCGCTTTACCAGCCGACACGAGTGTACACAGTCTGGAGGAAGTGAAGTCCAGGAACCTCGTGGCCAA
 TATCACAGCGGAGGATCCTGATGATGAAGTTTTCCAGCCACCTCCTCTACAGCATTACCACTGTTAGC
 AAATATTTTCATGATAAATCAGTTGACTGGTACAATCCAAGTGGCCCAAAGGATAGACCGAGATGCAGGTG
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 TCGCATCCAGATAACCTTCATTGTGGAAGACGTCAACGACAATCCTGCCACATGCCAAAAGTTACCTTC
 AGCATTATGGTGGCGAAAGAACAGCCAAGGGGACGTTGCTTCTTGACCTAAACAAGTCTGTCTTTGATG
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 CCCCAGAGCAGCCTCCTGTACTCCATCTCCACTGGAGGGCCAGCCTCCAGTATCCAAATGTATTTTGA
 TTAATCCCAAGACAGGAGAACTCCAGCTGGTAACTAAAGTGGACTGTGAAACAACCCCCATCTATATTCT
 CAGAATCCAGGCCACCAACAACGAAGACACAAGCTCTGCTACTGTTACTGTGAACATCCTTGAAGAAAAT
 GATGAAAAGCCAATTTGACTCCAACTCTTATTTCTGGCCCTCCAGTGGATCTGAAAGTTGGCACAA
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 GGGAGCTGCCCCACGACAGTCACTGCTGGGAAAGGATGGGGTCACTGAGAAGTCCAAGTGGGAAGAA
 GATGAGCTGAGTGGCAAAGCGTGGGCTGAGGATGCTGGTCTGGGTTCCAGAAATGAGGGTGGCAAGCTGG
 GCAACCCAAAAGACAGAAATCCAGCCTTATGAACAGGGCTTACCCAAACCACCCAGGAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG218636 representing NM_152750
 Red=Cloning site Green=Tags(s)

MQEAIILLALLGAMSGGEALHILLPATGNAENSPPGTSVHKFSVKLSASLSPVIPGFPQIVNSNPLTE
 AFRVNWLSGTYFEVVTGMEQLDFETGPNIFDLQIYVKDEGVTDLQVLTQVTDVNEPPQFQGNLAEGL
 HLYIVERANPGFIYQVEAFDPEDTSRNIPLSYFLISPPKSFMSANGTLFSTTELDFAEAGHRSFHLIVEV
 RDSGGLKASTELQVNIIVNLNDEVPRFTSPTRVYTVLEELSPGTIVANITAEDPDDEGFPSHLLYSITTVS
 KYFMINQLTGTIQVAQRIDRDAGELRQNPTISLEVLVKDRPYGGQENRIQITFIVEDVNDNPATCQKFTF
 SIMVPERTAKGTLILLDLNKFCDDDSEAPNNRNFNFTMPSGVSGSRFLQDPAGSGKIVLIGDLDYENPSN
 LAAGNKYTVIIQVQDVAPPYYKNNVYVYILTSPENEFPLIFDRPSYVFDVSERRPARTRVGQVRATDKDL
 PQSSLLYSISTGGASLQYPNVFWINPKTGELQLVTKVDCETTPYILRIQATNNEDTSSVTVTVNILEEN
 DEKPICTPNSYFALPVDLKVGTNIQNFKLTCTDLSSPRSFYRYSIGPGNVNHFTFSPNAGSNVTRLLL
 TSRFDYAGGFDKIWDYKLLVYVTDNLMSDRKKAELVETGTVTLSEIKVIPHTTITTTTPRPRVYQVL
 RKNVYSPSAWYVPFVITLGSILLGLLVYLVLLAKAIHRHCCKTGKNKEPLTKKGETKAERDVVET
 IQMNTIFDGEAIDPVTGETYEFNSKTGARKWKDPLTQMPKWKESSHQGAAPRRVTAGEGMGSLRSANWEE
 DELSGKAWAEDAGLGSRNEGGKLGPNKRNPAFMNRAYPKPHPGK

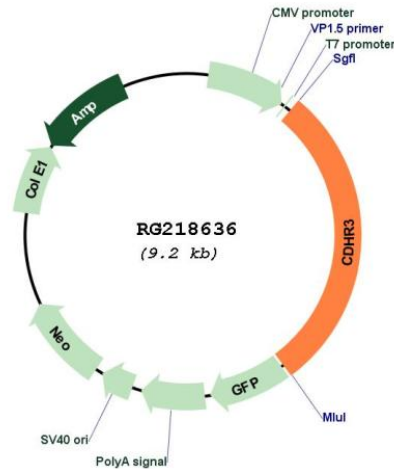
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_152750

ORF Size: 2655 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_152750.5](#)

RefSeq Size: 6500 bp

RefSeq ORF: 2658 bp

Locus ID: 222256

UniProt ID: [Q6ZTQ4](#)

Cytogenetics: 7q22.3

Protein Families: Transmembrane

Gene Summary: Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types.[UniProtKB/Swiss-Prot Function]