

Product datasheet for **RG229582**

Claudin 7 (CLDN7) (NM_001185023) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Claudin 7 (CLDN7) (NM_001185023) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CLDN7
Synonyms: CEPTRL2; claudin-1; CLDN-7; CPETRL2; Hs.84359
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229582 representing NM_001185023
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAATTCGGGCTGCAGTTGCTGGGCTTCTCCATGGCCCTGCTGGGCTGGGTGGTCTGGTGGCCT
GCACCGCCATCCCGCAGTGGCAGATGAGCTCCTATGCGGGTGACAACATCATCACGGCCAGGCCATGTA
CAAGGGGCTGTGGATGGACTGCGTCACGCAGAGCACGGGGATGATGAGCTGCAAATGTACGACTCGGTG
CTCGCCCTGTCCGCGCCTTGCAGGCCACTCGAGCCCTAATGGTGGTCTCCCTGGTCTGGGCTTCTCG
CCATGTTTGTGGCCACGATGGGCATGAAGTGCACGCGCTGTGGGGAGACGACAAAGTGAAGAAGCCCG
TATAGCCATGGGTGGAGGCATAATTTTCATCGTGGCAGGTATGAGTTGGCCCTGCCATCTTATTGGCT
GGGCAGGGTCTGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229582 representing NM_001185023
Red=Cloning site Green=Tags(s)

MANSGQLLGFSMALLGWVGLVACTAIPQWQMSYAGDNIITAQAMYKGLWMDCVTQSTGMMSCKMYDSV
LALSAALQATRALMVVSLVLGFLAMFVATMGMKCTRCGGDDKVKKARIAMGGGIIFIVAGMSLALPSLLA
GQGLP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_001185023.1, NP_001171952.1</u>
RefSeq Size:	1944 bp
RefSeq ORF:	438 bp
Locus ID:	1366
UniProt ID:	<u>O95471</u>
Cytogenetics:	17p13.1
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Gene Summary:	<p>This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. Differential expression of this gene has been observed in different types of malignancies, including breast cancer, ovarian cancer, hepatocellular carcinomas, urinary tumors, prostate cancer, lung cancer, head and neck cancers, thyroid carcinomas, etc.. Alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, May 2010]</p>