

Product datasheet for **RG217750**

Chloride Channel 5 (CLCN5) (NM_000084) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chloride Channel 5 (CLCN5) (NM_000084) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chloride Channel 5
Synonyms:	CIC-5; CLC5; CLCK2; DENT1; DENTS; hCIC-K2; NPHL1; NPHL2; XLRH; XRN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217750 representing NM_000084
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTTCTTGGAGGAGCCAATCCCTGGTGTAGGGACCTATGATGATTTCAATACAATTGATTGGGTGA
 GAGAGAAGTCTCGAGACCGGGATAGGCACCGAGAGATTACCAATAAAAGCAAAGAGTCAACATGGGCCTT
 AATTCACAGTGTGAGTGATGCTTTTTCCGGCTGGTTGTTGATGCTCCTTATTGGGCTTTTATCAGGTTCCG
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 TCTGGTTAAACCATGAACATTGTTGCTGGAACCTGAGCATGTCACCTTTGAAGAGAGACAAAATGTC
 AGAGTGGAAATAGTTGGTCCAGCTTATCATCAGCACAGATGAGGGAGCCTTGCCTACATAGTCAATTAT
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 GGCGTGGGAGTCTACAGTCAATGTGGCAGCTGGCTTAACTACTACTGAAAATTGTCATTACTATAT
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 GATATTTCCGAAAGCTGGGACTGCGGCAGTGCCTGGTTACACACAACGGGGGATTGCTTGAATCATT
 CCAAAAAGGATGTGTTAAAGCATATAGCACAGATGGCGAACCAAGATCCTGATTCCATTCTTCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217750 representing NM_000084
Red=Cloning site Green=Tags(s)

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MDIPATAMDFSMRDDVPPLDREVGEDKSYNGGGIGSSNRIMDFLEEPPIPGVGTYYDFNTIDWVREKSRDR
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CCWNSEHVTFEERDKCPEWNSWSQLIISTDEGAFAYIVNYFMYVLWALLFAFLAVSLVKVFPAPYACGSGI
PEIKTILSGFIIRGYLGKWTLVIKTITLVLAVSSGLSLGKEGPLVHVACCCGNILCHCFNKYRKNEAKRR
EVL.SAAAAAGVSVAFGAPIGGVLF.SLEEVSYFFPLKTLWRSFFAALVAAF.LRSINPFGNSRLVLFYVEF
HTPWHLFELVPFILLGIFGGLWGALF.IRTNIAWCRKRKTTQLGKYPVIEVLVVTAITAILAFPNEYTRMS
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PSGLFIPSMAVGAIAGRLLGVGMEQLAYYHQEWTVFNSWCSQGADCITPGLYAMVGAAACLGGVTRMTVS
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NDPLLTVLTQDSMTVEDVETI.ISETTYSGFVVVSRESQRLVGFVLRDLIISIENARKKQDGVVSTSI
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000084

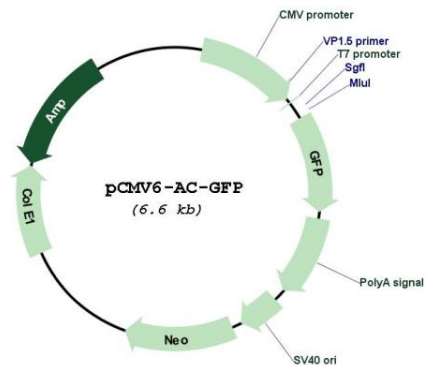
ORF Size: 2238 bp

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:	<u>NM_000084.3</u>
RefSeq Size:	3173 bp
RefSeq ORF:	2241 bp
Locus ID:	1184
UniProt ID:	<u>P51795</u>
Cytogenetics:	Xp11.23
Domains:	CBS, voltage_CLC
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	This gene encodes a member of the CIC family of chloride ion channels and ion transporters. The encoded protein is primarily localized to endosomal membranes and may function to facilitate albumin uptake by the renal proximal tubule. Mutations in this gene have been found in Dent disease and renal tubular disorders complicated by nephrolithiasis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG217750