

## Product datasheet for PH316887

### CLDN19 (NM\_148960) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CLDN19 MS Standard C13 and N15-labeled recombinant protein (NP_683763)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216887
Predicted MW:	23 kDa
Protein Sequence:	>RC216887 representing NM_148960 Red=Cloning site Green=Tags(s)  MANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAIITAVGPYEGLWMSCASQSTGQVQCKLYDSL LALDGHIQSARALMVAVLLGFVAMVLSVGMKCTRVGDSNPIAKGRVAIAGGALFILAGLCTLTAVSWY ATLVTQEFFNPSTPVNARYEFGPALFVGWASAGLAVLGGSFLLCCTCEPERPNSSPQPYRPGPSAAAREP VVKLPASAKGPLGV  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_683763</a>
RefSeq Size:	2859
RefSeq ORF:	672
Synonyms:	HOMG5
Locus ID:	149461
UniProt ID:	<a href="#">Q8N6F1</a>



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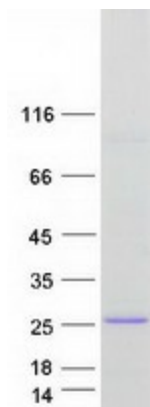
**Cytogenetics:** 1p34.2

**Summary:** The product of this gene belongs to the claudin family. It plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Defects in this gene are the cause of hypomagnesemia renal with ocular involvement (HOMGO). HOMGO is a progressive renal disease characterized by primary renal magnesium wasting with hypomagnesemia, hypercalciuria and nephrocalcinosis associated with severe ocular abnormalities such as bilateral chorioretinal scars, macular colobomata, significant myopia and nystagmus. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jun 2010]

**Protein Families:** Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

### Product images:



Coomassie blue staining of purified CLDN19 protein (Cat# [TP316887]). The protein was produced from HEK293T cells transfected with CLDN19 cDNA clone (Cat# [RC216887]) using MegaTran 2.0 (Cat# [TT210002]).