

## Product datasheet for PH313399

### Zonula occludens protein 3 (TJP3) (NM\_014428) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TJP3 MS Standard C13 and N15-labeled recombinant protein (NP_055243)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213399
Predicted MW:	104.6 kDa
Protein Sequence:	>RC213399 representing NM_014428 Red=Cloning site Green=Tags(s)
	MNLCGLMPIFPAPLDQVADMEELTIWEQHTATLSKDPRRGFIAISGGRDRPGGSMVVSDDVPPGPAEGR LQTGDHIVMNGVSMENATSAFAIQILKCTKMANITVKRPRRIHLPATKASPSSPGRQDSEDDGPQRV EEVDQGRGYDGDSSSGSRSWDERSRRPRPGRGRAGSHGRRSPGGGSEANGLALVSGFKRLPRQDVQMK PVKSVLVKRRDSEEFVKLGSQIFIKHITDGLAARHRGLQEGDLILQINGVSSQNLSLNDTRRLIEKSE GKLSLLVLRDRGQFLVNIPPAVSDSDSSPLEEGVTMADEMSSPPADISDLASELSQAPPSHIPPPRHAQ RSPEASQTDSPVESPRLRRESSVDSRTISEPDEQRSELPRESSYDIYRVPSSQSMEDRGYSPDTRVVRFL KGKSIGLRLAGGNDVGIFVSGVQAGSPADGGQIQEGDQILQVNDVPPFQNLTREEAVQFLLGLPPGEEMEL VTQRKQDIFWKMVQSRVGDSEFYIRTHFELEPSPPSGLGFTRGDVFHVLDLHPGPGQSHARGGHWLAVRM GRDLREQERGIIPNQSRAEQLASLEAAQRAVGVGPGSSAGSNARAEFWRLRGLRRGAKKTTQRSREDL LTRQGRYPYERVVLRASFKRPVVILGPVADIAMQKLTAEKMPDQFEIAETVSRDTPSPKIKLDTVRVI AEKDKHALLDVTPSAIERLNYYVYPIVVFIPESRPALKALRQLAPASRRSTRRLYAQAQKLRKHSSH LFTATIPLNGTSDTWYQELKAIIREQQTRPIWTAEDQLDGSLEDNLDLPHHGLADSSADLSCDSRVNSDY ETDGEAGAYTDGEGYTDGEGPYTDVDEPPAPALARSEPVQADESQSPRDRGRISAHQGAQVDSRHPQ GQWRQDSMRTYEREALKKKFMRVHDAESSDEEDGYDWGPATDL
	SGPTRRRLEQKLI 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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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.



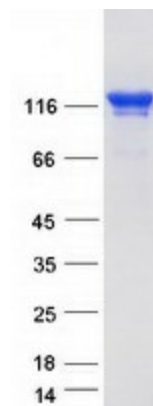
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RefSeq:	<a href="#">NP_055243</a>
RefSeq Size:	2859
RefSeq ORF:	2856
Synonyms:	ZO-3; ZO3
Locus ID:	27134
UniProt ID:	<a href="#">O95049</a>
Cytogenetics:	19p13.3

**Summary:** The protein encoded by this gene is a member of the membrane-associated guanylate kinase-like (MAGUK) protein family which is characterized by members having multiple PDZ domains, a single SH3 domain, and a single guanylate kinase-like (GUK)-domain. In addition, members of the zonula occludens protein subfamily have an acidic domain, a basic arginine-rich region, and a proline-rich domain. The protein encoded by this gene plays a role in the linkage between the actin cytoskeleton and tight-junctions and also sequesters cyclin D1 at tight junctions during mitosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. This gene has a partial pseudogene on chromosome 1. [provided by RefSeq, May 2012]

**Protein Pathways:** Tight junction

### Product images:



Coomassie blue staining of purified TJP3 protein (Cat# [TP313399]). The protein was produced from HEK293T cells transfected with TJP3 cDNA clone (Cat# [RC213399]) using MegaTran 2.0 (Cat# [TT210002]).