

## Product datasheet for TP322917

### MYO6 (NM\_004999) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human myosin VI (MYO6), 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC222917 representing NM\_004999  
Red=Cloning site Green=Tags(s)

MEDGKPVWAPHPTDGFQMGNIVDIGPDSLIEPLNQKGKTFALINQVFPAAEEDSKKDVEDNCSLMYLNE  
 ATLLHNIKVRYSKDRIYTYVANILIAVNPYFDIPKIYSSEAIKSYQGKSLGTRPPHVFAIADKAFRDMKV  
 LKMSQSIIVSGESGAGKTENTKFVLRYLTSYGTGQDIDDRIVEANPLLEAFGNAKTVRNNNSSRFKGFV  
 EIHFNKSSVGGFVSHYLLEKSRICVQGKEERNYHIFYRLCAGASEDIREKLHLSSPDNFRYLNRGCTR  
 YFANKETDKQILQNRKSPEYLKAGSMKDPDLLDDHGDFIRMCTAMKKIGLDDEEKLDLFRVVAGVLHLGNI  
 DFEEAGSTSGGCNLKNKSAQSLEYCAELLGLDQDDLRLVSLTTRVMLTTAGGKGTVIKVPVKVEQANNAR  
 DALAKTVYSHLFDHVNRVNCQFPFETSSYFIGVLDIAGFEYFEHNSFEQFCINYCNEKLQQFFNERILK  
 EEQELYQKEGLGVNEVHYVDNQDCIDLIEAKLVGILDILDEENRQPQSDQHFTSAVHQKHKDHFRILTIP  
 RKSCLAVHRNIRDDEGFIRHFAGAVCYETTQFVEKNNDALHMSLES LICESRDKFIRELFESSTNNKND  
 TKQKAGKLSFISVGNKFKTQLNLLLDKLRSTGASFIRCIPNLKMTSHHFEGAQILSQLQCSGMVSVL DL  
 MQGGYPSRASFHLYNMYKKYMPDKLARLDPRLFCKALFKALGLNENDYKFGLTKVFFRPGKFAEFDQIM  
 KSDPDHLAELVKRVNHWLTCSRWKKVQWCSLSVIKLNKIKYRAEACIKMQKTIRMWLCRRRHKPRIDGL  
 VKVGTLLKRLDKFNEVSVLKDGPPEMNKQIKNLEISIDTLMAKIKSTMMTQEIQKEYDALVKSSELL  
 SALQKKKQEEEEAERLRRIQEEMEKERKRREDEKRRRKEEEERRMKLEMEAKRKQEEERKKREDDEKR  
 IQAEVEAQLARQKEEESQQAVLEQERRDRELALRIAQSEALISDEA QADLALRRNDGTRPKMTPEQMA  
 KEMSEFLSRGPAVLATKAAAGTKKYDLSKWYAELRDTINTSCDIELLAACREEFHRRLLKVYHAWKSKNK  
 KRNTETEQRAPKSVTDYDFAPFLNNSPQQNPAAQIPARQREIEMNRQQRFFRIPFIRPADQYKDPQSKKK  
 GWWYAHFDGPWIARQMELHPDKPILLVAGKDDMEMCELNLEETGLTRKRGAEILPRQFEEIWERC GGIIQ  
 YLQNAIESRQARPTYATAMLQSLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

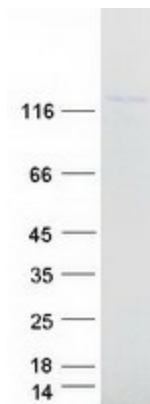
**Tag:** C-Myc/DDK  
**Predicted MW:** 148.5 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method



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<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004990</a>
<b>Locus ID:</b>	4646
<b>UniProt ID:</b>	<a href="#">Q9UM54</a>
<b>RefSeq Size:</b>	8662
<b>Cytogenetics:</b>	6q14.1
<b>RefSeq ORF:</b>	3855
<b>Synonyms:</b>	DFNA22; DFNB37
<b>Summary:</b>	This gene encodes a reverse-direction motor protein that moves toward the minus end of actin filaments and plays a role in intracellular vesicle and organelle transport. The protein consists of a motor domain containing an ATP- and an actin-binding site and a globular tail which interacts with other proteins. This protein maintains the structural integrity of inner ear hair cells and mutations in this gene cause non-syndromic autosomal dominant and recessive hearing loss. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]

### Product images:



Coomassie blue staining of purified MYO6 protein (Cat# TP322917). The protein was produced from HEK293T cells transfected with MYO6 cDNA clone (Cat# [RC222917]) using MegaTran 2.0 (Cat# [TT210002]).