

## Product datasheet for **TP307766**

### Brk (PTK6) (NM\_005975) Human Recombinant Protein

#### Product data:

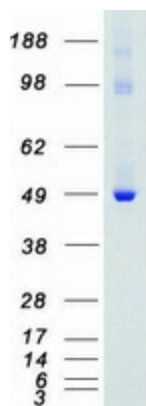
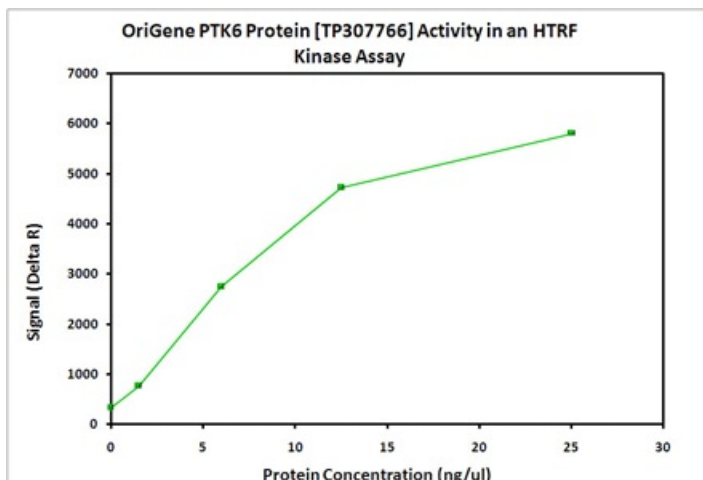
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human PTK6 protein tyrosine kinase 6 (PTK6), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207766 representing NM_005975 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MVSRDQAHLGPKYVGLWDFKSRTDEELSFragDVFHVARKEEQWWWATLLDEAGGAVAQGYVPHNYLAER ETVESEPWFFGCISRSEAVRRLQAEGNATGAFLIRVSEKPSADYVLSVRDTQAVRHYKIWRRAGGRLHLN EAVSFLSLPELVNYHRAQSLSHGLRLAAPCRKHEPEPLHWDDWERPREEFTLCRKLGSYGFGEVFEGLW KDRVQVAIKVISRDNLLHQMLQSEIQAMKKLRHKHILALYAVVSVGDPVYIITELMAKGSLELLLRDSD EKVLPVSELLDIAWQVAEGMCYLESQNYIHRDLAARNILVGENTLCKVGDVGLARLIKEDVYLSHDHNIP YKWTAPEALSRGHYSTKSDVWSFGILLHEMFSRGQVPYPGMSNHEAFLRVDAGYRMPCPLECPPSVHKLM LTCWCRDPEQRPCFKALRERLSSFTSYENPT  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	51.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Bioactivity:</b>	PTK6 activity verified in a biochemical assay: <b>PTK6 (protein tyrosine kinase 6)</b> (TP307766) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. PTK6 is a cytoplasmic nonreceptor protein tyrosine kinase which may function as an intracellular signal transducer in epithelial tissues. Varying concentrations of PTK6 were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the tyrosine residue in the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluors.
<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_005966</a>
<b>Locus ID:</b>	5753
<b>UniProt ID:</b>	<a href="#">Q13882</a>
<b>RefSeq Size:</b>	2519
<b>Cytogenetics:</b>	20q13.33
<b>RefSeq ORF:</b>	1353
<b>Synonyms:</b>	BRK
<b>Summary:</b>	The protein encoded by this gene is a cytoplasmic nonreceptor protein kinase which may function as an intracellular signal transducer in epithelial tissues. Overexpression of this gene in mammary epithelial cells leads to sensitization of the cells to epidermal growth factor and results in a partially transformed phenotype. Expression of this gene has been detected at low levels in some breast tumors but not in normal breast tissue. The encoded protein has been shown to undergo autophosphorylation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Secreted Protein

**Product images:**



Coomassie blue staining of purified PTK6 protein (Cat# TP307766). The protein was produced from HEK293T cells transfected with PTK6 cDNA clone (Cat# [RC207766]) using MegaTran 2.0 (Cat# [TT210002]).