

## Product datasheet for **TP320309**

### PLA2G2F (NM\_022819) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phospholipase A2, group IIF (PLA2G2F), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220309 representing NM_022819 <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MADGAKANPKGFKKKVLDRFCSGWRGPRFGASCPSRTSRSSLGMKKFFTVAILAGSVLSTAHGSLNLKA MVEAVTGRSAILSFVGYGCGYGLGGRGQPKDEVWCCHAHDCCYQELFDQGCHPYVDHYDHTIENNTIV CSDLNKTECDKQTCMCDKNMVLCLMNQTYREEYRGFLNVYCQGPTPNCSIYEPPEEVTCSHQSPAPPAP P  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-Myc/DDK
Predicted MW:	23.1 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_073730</a></u>
Locus ID:	64600
UniProt ID:	<u><a href="#">Q9BZM2</a></u>


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<b>RefSeq Size:</b>	2737
<b>Cytogenetics:</b>	1p36.12
<b>RefSeq ORF:</b>	633
<b>Synonyms:</b>	GIIFsPLA2; sPLA2-IIF
<b>Summary:</b>	<p>May play a role in lipid mediator production in inflammatory conditions, by providing arachidonic acid to downstream cyclooxygenases and lipoxygenases (By similarity). Phospholipase A2, which catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides (PubMed:11112443). Hydrolyzes phosphatidylethanolamine more efficiently than phosphatidylcholine, with only a modest preference for arachidonic acid versus linoleic acid at the sn-2 position. Comparable activity toward 1-palmitoyl-2-oleoyl-phosphatidylserine vesicles to that toward 1-palmitoyl-2-oleoyl-phosphatidylglycerol (By similarity). Hydrolyzes phosphatidylglycerol versus phosphatidylcholine with a 15-fold preference (PubMed:11112443).[UniProtKB/Swiss-Prot Function]</p>
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	<p>alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway</p>