## **Product Datasheet**

### GTPase Assay Kit (Colorimetric) 602-0122

Unit Size: 5 x 480 Tests

Storage of components varies. See protocol for specific instructions.

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#### **Publications: 23**

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#### 602-0122

GTPase Assay Kit (Colorimetric)

Product Information	
Unit Size	5 x 480 Tests
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Storage of components varies. See protocol for specific instructions.
Product Description	
Description	<ul> <li>This non radioactive colorimetric assay kit contains all the necessary reagents for measuring enzyme activity (everything included in the PiColorlock kit and more) and is ideal for high throughput drug screening.</li> <li>The kits contain our PiColorlock, a non-radioactive, superior phosphate detection reagent.</li> <li>Key Features of PiColorLock: <ul> <li>Colorimetric Assay-competitor assays are radioactive.</li> <li>Special additive ensures low backgrounds with acid-labile substrates.</li> <li>Unparalleled stability of phosphate-dye complexes.</li> <li>Reagent is compatible with almost any assay buffer.</li> <li>No inhibition of color development by high concentrations of protein.</li> <li>Stable reagent formulation - long shelf life.</li> </ul> </li> <li>Colorimetric assays for GTPases are invariably based on the formation of colored complexes between an inorganic phosphate and a dye molecule under acidic conditions.</li> </ul>
Kit Components	1 x 10 ml of PiColorLock (1 x 25 ml), 1 x 0.25 ml of Accelerator (1 x 0.5 ml), 1 x 5 ml of Stabiliser (1 x 10 ml), 1 x 1.5 ml of 0.1M MgCl2 (2 x 1.5 ml), 1 x 5 ml of 0.5M Tris pH 7.5 (1 x 10 ml), 1 x 5 ml of 0.1mM Pi standard (1 x 10 ml), 4 vials of lyophilized ATP (10 vials), 2 x 96-well plates (5 plates)
Notes	This product is manufactured by Expedeon Inc. and distributed by Novus Biologicals.



#### **Publications**

Yan J, Liu XH, Han MZ et al. Blockage of GSK3 beta-mediated Drp1 phosphorylation provides neuroprotection in neuronal and mouse models of Alzheimer's disease. Neurobiol Aging 2014-01-01 [PMID: 25192600]

Ellinger D, Glockner A, Koch J et al. Interaction of the Arabidopsis GTPase RabA4c with Its Effector PMR4 Results in Complete Penetration Resistance to Powdery Mildew. Plant Cell 2014-01-01 [PMID: 25056861]

Gundner AL, Hahn I, Sendscheid O et al. The PIKE Homolog Centaurin gamma Regulates Developmental Timing in Drosophila. PLoS One 2014-01-01 [PMID: 24845618]

Santhosh KT, Sikarwar AS, Hinton M et al. Thromboxane Receptor Hyper-Responsiveness in Hypoxic Pulmonary Hypertension Requires Serine 324. Br J Pharmacol. 2013-01-01 [PMID: 24490858]

Alaganan A, Fentress SJ, Tang K et al. Toxoplasma GRA7 effector increases turnover of immunity-related GTPases and contributes to acute virulence in the mouse. PNAS 2013-01-01 [PMID: 24390541]

Zhang K, Fishel Ben Kenan R, Osakada Y et al. Defective Axonal Transport of Rab7 GTPase Results in Dysregulated Trophic Signaling. J Neurosci 2013-01-01 [PMID: 23616551]

Mallozzi C, D'Amore C, Camerini S et al. Phosphorylation and nitration of tyrosine residues affect functional properties of Synaptophysin and Dynamin I, two proteins involved in exo-endocytosis of synaptic vesicles. Biochim Biophys Acta. 2012-01-01 [PMID: 23103755]

Gonzalez-Flores JN, Gupta N, DeMong LW, Copeland PR. The selenocysteine-specific elongation factor contains a novel and multi-functional domain. J Biol Chem. 2012-01-01 [PMID: 22992746]

Gopalakrishnan J, Chim YC, Ha A et al. Tubulin nucleotide status controls Sas-4-dependent pericentriolar material recruitment. Nat Cell Biol 2012-01-01 [PMID: 22729084]

Han JM, Jeong SJ, Park MC et al. Leucyl-tRNA Synthetase Is an Intracellular Leucine Sensor for the mTORC1-Signaling Pathway. Cell 2012-01-01 [PMID: 22424946]

Xiong Y, Yuan C, Chen R et al. ArfGAP1 Is a GTPase Activating Protein for LRRK2: Reciprocal Regulation of ArfGAP1 by LRRK2. J Neurosci 2012-01-01 [PMID: 22423108]

Stafa K, Trancikova A, Webber PJ et al. GTPase Activity and Neuronal Toxicity of Parkinson's Disease-Associated LRRK2 Is Regulated by ArfGAP1. PLoS Genet. 2012-01-01 [PMID: 22363216]

More publications at http://www.novusbio.com/602-0122

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#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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