## **Product Information**

Construct:	BirA ( <i>E. coli</i> ) (GST-2-321(end))
Concentration:	1.25 mg/ml
Species:	E. coli
Formulated In:	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM glutathione, 3 mM DTT, and 20% glycerol.
Expression System:	E. coli
Format:	Aqueous buffer solution
Stability:	At least 6 months at -80°C. Avoid freeze/thaw cycles.
Storage:	-80°C
Genbank Accession:	NP_418404
MW:	61 kDa
Purity:	78%
Assay Conditions:	BirA (16 $\mu$ g/ml) completely biotinylated 10 $\mu$ M of Avi-tag substrate at 30°C for
	30 minutes in reaction buffer containing 50 mM Bicine pH 8.3, 10 mM ATP, 10 mM MgOAc, and 50 μM d-Biotin.
Applications:	Useful for covalently biotin-labeling of acceptor proteins for detection and purification assays.

## Quality Control Data

4-20% SDS-Page Coomassie Staining	BirA Biotinylation Assay
+20/8 3D3-Page Coomassie Staining - 250 kDa - 150 kDa - 100 kDa - 75 kDa - 50 kDa - 37 kDa - 25 kDa - 20 kDa - 10 kDa - 10 kDa - 37 kDa - 25 kDa - 10 kDa - 37 kDa - 25 kDa - 10 kDa - 10 kDa - 15 kDa - 10 kDa	A, 1 2 3 4 B, 1 2 3 4 50 kDa 150 kDa 100 kDa 100 kDa 50 kDa 10 k
	Streptavidin-HRP and developed with ECL reagent.

