# Data Sheet (Cat.No.TMPH-00754)

## Capsid decoration Protein, Escherichia phage lambda, Recombinant (GST)

### General Information

Synonyms: D;Gene product D (gpD);Auxiliary protein D;Major capsid protein D;Capsid decoration protein

Protein Construction: 1-56 aa

Species: Escherichia phage lambda

Expression Host: E. coli

Accession: P03712

Molecular Weight: 32.5 kDa (predicted)

AA Sequence: MTSKETFTHYQPQGNSDPAHTATAPGGLSAKAPAMTPLMLDTSSRKLVAWDGTTDG

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Stabilizes the expansion of the capsid head shell after genome packaging. The packaging of viral genome in the procapsid triggers a dramatic reconfiguration of the capsid shell, expanding from roughly 50nm to 60nm while the capsid thickness decreases. 415 capsid decoration protein molecules cooperatively bind the expanded capsid, thereby stabilizing the mature capsid shell.

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