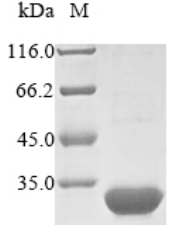


## Recombinant Enterobacteria phage T4 Recombination protein uvsY(uvsY)

Catalog Number: RPC20306

|                        |  |
|------------------------|--|
| <b>Product Name</b>    | Recombinant Enterobacteria phage T4 Recombination protein uvsY(uvsY)   |
| <b>Catalog Number</b>  | RPC20306   |
| <b>Expression host</b> | <i>E.coli</i>  |
| <b>Product Info</b>    | N-terminal 6xHis-SUMO-tagged   |
| <b>Storage Buffer</b>  | 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol   |
| <b>Storage</b>         | Store at -20°C, for extended storage, conserve at -20°C or -80°C   |
| <b>Notes</b>           | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |
| <b>Relevance</b>       | Plays a role in viral DNA synthesis by promoting enzymatic activities of UvsX recombinase, by promoting UvsX-ssDNA filament assembly, and by helping UvsX to displace bound gp32 from ssDNA.   |
| <b>AA sequence</b>     | MRLEDLQEELKKDVFIDSTKLQYEAANNVMLYSKWLKHKHSSIKKEMLRIEAQK<br>KVALKARLDYYSGRGGDEFMSMDRYEKSEMKTVLSADKDVLLKVDTSLQYWGI<br>LLDFCSGALDAIKSRGFAIKHIQDMRAFEAGK  |
| <b>References</b>      | "Structure and mechanism of the phage T4 recombination mediator protein UvsY."<br>Gajewski S., Waddell M.B., Vaithiyalingam S., Nourse A., Li Z., Woetzel N., Alexander N., Meiler J., White S.W.<br>Proc. Natl. Acad. Sci. U.S.A. 113:3275-3280(2016) |

## Certificate of Analysis

|                            |   |   |
|----------------------------|---|---|
| <b>Product Name</b>        | Recombinant Enterobacteria phage T4 Recombination protein uvsY(uvsY)          |   |
| <b>Catalog Number</b>      | RPC20306  |   |
| <b>Expression host</b>     | <i>E.coli</i>   |   |
| <b>Product Info</b>        | N-terminal 6xHis-SUMO-tagged  |   |
| <b>Storage Buffer</b>      | 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol                              |   |
| <b>Batch Number</b>        | 03745   |   |
| <b>Nature</b>              | Enterobacteria phage T4 uvsY-(AA 1-137)- <b>P04537</b> -Full Length           |   |
| <b>Purification</b>        | Affinity purified using IMAC  |   |
| <b>Recommended Storage</b> | Short term  | 2 to 8 °C, one week from the date of receipt  |
|                            | Long term   | -20 to -80 °C, six months from the date of receipt  |
| <b>Form</b>                | Liquid  |   |
| <b>Date of detection</b>   | 2018.03.27  |   |
| <b>Test Items</b>          | <b>Specifications</b>   | <b>Results</b>  |
| <b>Appearance</b>          | Clear Solution  | pass  |
| <b>Concentration</b>       | 0.1-5 mg/ml, by the Bradford Method.  | 0.8 mg/ml   |
| <b>Purity</b>              | ≥90%, by SDS-PAGE<br>quantitative densitometry by<br>Coomassie Blue Staining. | <br>90% |

|                         |                               |  |                            |
|-------------------------|-------------------------------|--|----------------------------|
| <b>Molecular Weight</b> | Predicted band size: 31.8 kDa |  | Observed band size: 32 kDa |
|-------------------------|-------------------------------|--|----------------------------|

|                                   |  |
|-----------------------------------|--|
| <b>Electrophoretic parameters</b> | (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. |
| <b>Aseptic Processing</b>         | Not done   |
| <b>Endotoxin Level</b>            | Untreated  |
| <b>Activity</b>                   | Not tested   |
| <b>Conclusion</b>                 | pass   |