# Effector Protein Hopab2 (hopAB2) Pseudomonas Syringae Pv. Tomato Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Effector protein HopAB2 (hopAB2), Recombinant Protein |
| **Full Product Name** | Recombinant Pseudomonas syringae pv. tomato Effector protein HopAB2 (hopAB2), partial |
| **Product Gene Name** | hopAB2 recombinant protein |
| **Product Synonym Gene Name** | hopAB2 |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 59,453 Da |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q8RSY1 |
| **Species** | Pseudomonas syringae pv. tomato (strain DC3000) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for hopAB2 recombinant protein** | MBS1407882 is a recombinant protein targeting hopAB2. Also known as Recombinant Pseudomonas syringae pv. tomato Effector protein HopAB2 (hopAB2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of hopAB2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for hopAB2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 28870262 |
| **NCBI GeneID** | 1184744 |
| **NCBI Accession #** | NP_792881.1 |
| **UniProt Primary Accession #** | Q8RSY1 |
| **UniProt Secondary Accession #** | Q7C4D6 |
| **UniProt Related Accession #** | Q8RSY1 |
| **GenBank Nucleotide #** | NC_004578.1 |
| **NCBI Official Full Name** | type III effector HopAB2 |

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| **NCBI Official Symbol** | hopAB2 |
| **UniProt Protein Name** | Effector protein HopAB2 |
| **UniProt Synonym Protein Names** | Avirulence protein AvrPtoBIncluding the following 1 domains:E3 ubiquitin-protein ligase (EC:2.3.2.-)Alternative name(s):E3 ubiquitin-protein transferaseCurated |
| **Protein Family** | Effector protein |
| **UniProt Gene Name** | hopAB2 |
| **UniProt Synonym Gene Names** | avrPtoB |
| **NCBI Protein Information** | type III effector HopAB2 |
| **UniProt Comments for hopAB2** | Effector protein involved in gene-for-gene resistance in tomato plants. It is recognized by the host Pto resistance protein and elicits Pto and Prf-dependent hypersensitive response (HR) and programmed cell death (PCD), resulting in host immunity. In susceptible plants, acts as a virulence factor by suppressing PCD and HR-based plant immunity. This function requires its E3 ubiquitin ligase activity probably by recruiting E2 enzymes and transferring ubiquitin molecules to cellular proteins involved in regulation of PCD and targeting them for degradation. Also, induces expression of host genes involved in ethylene biosynthesis and signaling, in particular ACO1 and ACO2, encoding the ethylene-forming enzyme ACC oxidase. |
| **Research Articles on hopAB2** | **1.** we propose that both domains of Pseudomonas syringae pv tomato DC3000 AvrPtoB act together to support the virulence of PtoDC3000 in Arabidopsis through their ability to eliminate FLS2 from the cell periphery. |
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