# Tyrosine Recombinase Xerc (xerC) Staphylococcus Haemolyticus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Tyrosine recombinase XerC (xerC), Recombinant Protein |
| **Full Product Name** | Recombinant Staphylococcus haemolyticus Tyrosine recombinase XerC (xerC) |
| **Product Gene Name** | xerC recombinant protein |
| **Product Synonym Gene Name** | xerC |
| **Sequence** | MEEIQVTFLN MLKVERNFSA HTLKSYHDDL VQFNHFLEQE LINLRTFEYK DARNYLSYLY SQNLKRTTVS RKISTLRTFY EFWMTQDETI INPFVQLVHP KKENYLPQFF YEEEMEALFE TVAKDTKKGL RDRVILELLY ATGIRVSELV NIQLKDIDMS LPGVKVLGKG NKERFVPFGE FCRQSIEQYL REFKPIQHTK HSFLLVNMNG APITERGVRY VLNDVVKRTA GVTEIHPHKL RHTFATHLLN QGADLRTVQS LLGHVNLSTT GRYTHVSNQQ LRKVYLNAHP RAKKESK |
| **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** | 34,922 Da |
| **Sequence Positions** | 1-297, Full length protein |
| **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 Q4L5V4 |
| **Species** | Staphylococcus haemolyticus (strain JCSC1435) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for xerC recombinant protein** | MBS1280280 is a recombinant protein targeting xerC. Also known as Recombinant Staphylococcus haemolyticus Tyrosine recombinase XerC (xerC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of xerC 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 xerC. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499595214 |
| **NCBI Accession #** | WP_011275948.1 |
| **UniProt Primary Accession #** | Q4L5V4 |
| **GenBank Nucleotide #** | WP_011275948.1 |
| **NCBI Official Full Name** | MULTISPECIES: tyrosine recombinase XerC |

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| **UniProt Protein Name** | Tyrosine recombinase XerC |
| **Protein Family** | Putative tyrosine recombinase |
| **UniProt Gene Name** | xerC |
| **UniProt Comments for xerC** | Site-specific tyrosine recombinase, which acts by catalyzing the cutting and rejoining of the recombining DNA molecules. The XerC-XerD complex is essential to convert dimers of the bacterial chromosome into monomers to permit their segregation at cell division. It also contributes to the segregational stability of plasmids. |
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