

Recombinant *Oryzias latipes* Tol2 integrase, His-tagged

Cat. No. Tol2 transposase-12O **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Tol2 integrase (transposase) protein with His-tag, expressed in <i>E. coli</i> .
Species	<i>Oryzias latipes</i> (Japanese medaka)
Source	<i>E. coli</i>
ProteinLength	Full length (74 kDa calculated)
Description	Tol2 is a DNA-based transposon system derived from the Japanese medaka fish (<i>Oryzias latipes</i>). The Tol2 transposase is the enzyme responsible for catalyzing the transposition of the Tol2 element. This recombinant protein is expressed in <i>E. coli</i> with an N-terminal His-tag for purification.
Form	Liquid
Molecular Mass	74 kDa
AASequence	MHHHHHHHEEVCDSSAAASSTVQNQPQDQEHWPYLRFFSLSGVKNKDSFKMKCV LCLPLNKEISAFKSSPSNLRKHIERMHPNYLKNYSKLTAKRKIGTSTHASSSKQLKV DSVFPVKHVSPVTVNKAILRYIIQGLHPFSTVDLPSEKELISTLQPGISVITRPTLRSKIA EAALIMKQKVTAAMSEVEWIATTTDCWTARRKSFIGVTAHWINPGSLERHSAALACK RLMGSHTFEVLASAMNDIHSEYEIRDKVVCTTTDSGSNFMKAFRVFGVENNDIETEA RRCESDDTDSEGCGEGSDGVEFQDASRVLDQDDGFEFQLPKHQKCACHLLNLVSS VDAQKALSNEHYKKLYRSVFGKQCQALWNKSSRSALAAEAVESERLQLLRPNQTR WNSTFMAVDRIQLICKEAGEGALRNICTSLVPMFNPAMFLTEWANTMRPVAKVL

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DILQAETNTQLGWLLPSVHQLSLKLQRLHHSLRYCDPLVDALQQGIQTRFKHMFEDP
EIIAAAILLPKFRTSWTNDETIIKRGMDYIRVHLEPLDHHKELANSSSDDEDDFFASLKPT
THEASKELDGYLACVSDTRESLLTFPAICSLSIKTNTPLPASAACERLFSTAGLLFSPK
RARLDTNNFENQLLLKLNLRFYNFE

Endotoxin	< 1 EU/μg (LAL method)
Purity	>90% (by SDS-PAGE)
Notes	Tol2 transposase is a recombinant protein. Store at -20 to -80°C. Aliquot to avoid freeze-thaw cycles.
Storage	-20 to -80°C (aliquot to avoid freeze-thaw)
Concentration	0.35 mg/ml
Storage Buffer	10 mM HEPES, 300 mM KCl, pH 6.9

GENE INFORMATION

Gene Name	Tol2 (transposase)
Official Symbol	Tol2
Synonyms	Tol2 integrase, Tol2 transposase, Tol2 TPase

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