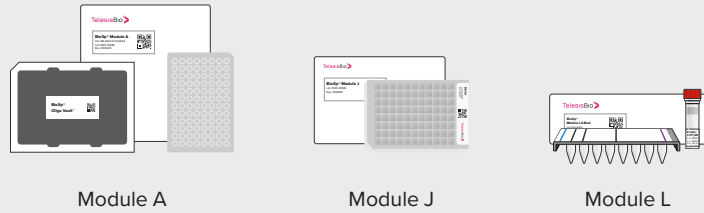


BioXp® 3250 Select DNA cloning kit, Golden Gate Assembly – Specification Sheet

Contains Golden Gate Assembly reagents necessary to generate clones starting with fragments and vector supplied by the end user.

Catalog numbers	<p>BioXp Select DNA cloning kit, Golden Gate Assembly, BsaI: BX-SEL-CLNGG4A-08 – 1-4 frag, 8 reactions BX_SEL_CLNGGG10A-08 – ≥ 5 frag, 8 reactions BX-SEL-CLNGG4A-24 – 1-4 frag, 24 reactions BX_SEL_CLNGGG10A-24 – ≥ 5 frag, 24 reactions</p>	<p>BioXp Select DNA cloning kit, Golden Gate Assembly, BsmBI: BX-SEL-CLNGG4B-08 – 1-4 frag, 8 reactions BX_SEL_CLNGGG10B-08 – ≥ 5 frag, 8 reactions BX-SEL-CLNGG4B-24 – 1-4 frag, 24 reactions BX_SEL_CLNGGG10B-24 – ≥ 5 frag, 24 reactions</p>
Description	BioXp Select DNA cloning kit for Golden Gate assembly	
Input DNA Format	<p>Mix of Golden Gate compatible insert and vector fragments in nuclease-free water. Linear DNA inserts sourced from:</p> <ul style="list-style-type: none"> • BioXp Gene Fragments (300-1800bp) • IDT gBlocks™ (300-1800bp) • Twist Genes (300-1800bp) • PCR amplicons (150-1800bp) • Entry vector containing pre-cloned inserts 	
Input DNA Quality	<p>Absorbance $A_{260/280}$ – 1.7-2.0 % full length >98% (as measured by Agilent TapeStation) (recommended)</p>	
Number of insert(s) supported	1 – 5 (recommended)	
Positive Control	pMiniT_eGFP (donor vector) + pGGA Select (destination vector) (pre-mixed plasmids included in kit)	
Output Format	DNA clones (circular)	
Cloning efficiency	≥ 90% Cloning Efficiency (based on the positive control supplied)	
System	BioXp 3250 instrument	
System runtime	<p>~2hrs (1-4 frags) ~6.5hrs (5 frags)</p>	
Package format and contents	<p>Module A: DNA input plate and the Reaction plate (with carrier and metal biosecurity cover) Module J: Reagent Plate (packaged in Module A) Module L: BioXp Golden Gate Assembly cloning strip and positive control tube</p>  <p>The diagram illustrates the three main components of the kit. Module A consists of a DNA input plate and a reaction plate with a carrier and a metal biosecurity cover. Module J is a reagent plate packaged within Module A. Module L includes a cloning strip and a positive control tube.</p>	
Shelf life	12 months from date of manufacture	

Storage conditions	Modules A and J: Ambient Module L: -80 °C
Shipping conditions	Modules A and J: Ambient Module L: Dry ice
Intended use	Research use only

Specifications are subject to change.

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