



## You need it? We have it!

## Introducing Takara Bio's best in class PCR enzymes for any application

We offer..

- Enzymes to cover any specific needs

  (High Fidelity, Real-Time PCR, Hot Start, Premixes, Long PCR and Direct PCR).
- Competitive prices- ask us for a quote today!

We invite you

To consult our team of experts and find the best solution for your research needs.

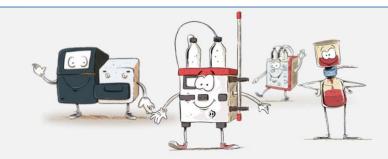
## Customize your enzymes..

We offer the option for bulk, custom and GMP graded polymerases.

## Don't compromise on quality!

Please Contact Us

Telephone: 08-9366066 Email: mbc@danyel.co.il



				Product Size								Terminal
Application	Polymeræe*	Amplifkation Efficiency	Product Ske w/ \DNA (Average/Nax)	w/ Human Genomic DNA (Average/ Ma x)	Start PCR	Fidelity	Proof reading Activity	Robustness	GC-Rich Templates	Time PCR (aPCR)	Processing	Activity (3'-A over- hang)
	TaKaRa Taq*** (R001A)	‡	6kb/12kb	2 kb/4 kb	No	**	No	‡	+	ı	1 kb/min	Yes
	Premix Tag ** (R004A)	‡	6 kb/12 kb	2 kb/4 kb	oN	**+	No	‡	+	1	1 kb/min	Yes
Routine PCR	TaKa Ra Ta q HS* (R007A)	‡	6kb/12kb	2 kb/4 kb	Yes	**+	No	‡	+	‡	1 kb/min	Yes
	Premix Taq" HS (R028A)	‡	6kb/12kb	2 kb/4 kb	Yes	*+	S.	‡	+	‡	1 kb/min	Yes
	EmeraldAmp*GT PCR Master Mix* (RR310A)	‡	6kb/12kb	2 kb/4 kb	No	**+	No	+	+++	1	1 kb/min	Yes
	TaKaRa Ex Taq*** (RR001A)	+++	20 ldb/30 kb	10 kb20 kb	No	***	Yes	‡	+	1	1-2 lds/min	Yes
	Premix Ex Ta q™ (RR003A)	‡	20 kb/30 kb	10 kb20kb	No	**+	Yes	‡	+	1	1-2 kb/min	Yes
		+++	20 lds/30 kb	10 kb20 kb	Yes	***	Yes	‡	+	‡	1-2 lds/min	Yes
High Efficiency	Premix Ex Tag " HS (RR030A)	+++	20 Mp/30 kb	10 kb/20 kb	Yes	***	Yes	‡	+	‡	1-2 Mormin	Yes
5	PerfectShot™ Ex Taq (RR005A) ¥	++++	20 kb/30 kb	10 kb/20 kb	No	**++	Yes	‡	+	1	1-2 kb/min	Yes
	EmeraldAmp* Max PCR Master Mix* (RR320 A) ¥	+++	20 Mp/30 kb	10 kb/20 kb	No	**+	Yes	‡	‡	,	1-2 ldv/min	Yes
	EmeraldAmp* Max HS PCR Master Mix* (RR330A) ¥	++++	20 lds/30 kb	10 kb20 kb	Yes	**++	Yes	##	‡	1	1-2 ld/min	Yes
	PrimeSTAR* MAX* (R045A)	****	up to 15kb	up to 6 kb	Yes	#+++	Yes	‡	‡	1	1 kb/5-10 sec	(blunt end)
	PrimeSTAR* GXL* (R050A)	***	up to 30kb	up to 30kb	Yes	## # #	Yes	‡	‡	1	1 kb/10 sec	(blunt end)
High Fidelity PCR	Prime STAR* HS* (R010A)	‡	up to 20 kb	up to 8.5 kb	Yes	****	Yes	‡	‡	1	1-2 Mormin	(blunt end)
	Prime STAR* HS with GC Buffers (R044.4)	‡	up to 10 kb	up to 5 kb	Yes	** + +	Yes	‡	‡	1	1-2 Mormin	(blumt end)
	PrimeSTAR* HS, Premix (R040A)	‡	up to 10kb	up to 5 kb	Yes	* + + +	Yes	‡	‡	1	1-2 kb/min	(blunt end)
	TaKaRa LA Taq*** (RR002A)	‡	35 lb/48 kb	20 kb/30 kb	No	<b>:</b> ‡	Yes	‡	+	1	1-2 ldo/min	Yes
	TakaRa LA Taq ** w/GC Buffers (RR0 2AG)	***	35 kb/48 kb§	(20 kb/30 kb) §	No	** ++	Yes	‡	‡	1	1-2 ldv/min	Yes
Long PCR	LA PCR Kit, V.21 (RR013A)	‡	35 kb/48kb	20 kb30 kb	No	** +++	Yes	‡	‡	1	1-2 ld/min	Yes*
	One-Shot LA PCR Mix V.2.0 (RR004)	+++	35 kb/48kb	20 kb/30 kb	ON	***+++	Yes	++++	+	_	1-2 kb/m in	Yes
	TaKaRa LA Taq" HS* (RR 042A)	+++	35 lb/48kb	20 kb30 kb	99A	***+++	Yes	++	+	-	1-2 lahmin	Yes
000	SpeedSTAR™ HS* (RR070A)	‡	20 kb/30 kb	10kb/20kb	Yes	**++	Yes	‡	+	1	6 kb/min	Yes
181	SapphinaAmp® Fast PCR Master Mbr (RR350A) ¥	‡	20 lds/30 kb	10 kb/ 20 kb	Yes	***	Yes	‡	‡	1	6kb/min	Yes
	SYBR* Premix DimerEraser** (RR091A)	+++	1	1	Yes	**++	Yes	++++	+	++	1	Yes
200	SYBR* Pemix Ex Taq" *(Til RNaseH Plus) (RR420.4)	++++	_	_	99A	***+	Yes	++++	+	++++	_	Yes
near Time Pon	SYBR® Premix Ex Taq™ II (Til RNaseH Plus) (RR820A)	++++	-	-	50 A	***+	Yes	++++	+	++++	_	Yes
	PremixEx Taq*** (Probe qPCR) (RR390A)	+++	1	1	Yes	**++	Yes	‡	+	‡	1	Yes
"Sample Manage												

sample Maliable

Unit Definition
One unit is the amount of enzyme that will incorporate 10 nmol of dNTP into acid-insoluble products in 30 min. at 74°C with activated salmon sperm DNA as the template-primer.

Purity Nicking activity, endonuclease, and exchaudease activity were not detected after the incubation of 0.6 μg of double-stranded superceiled pBR322 DNA, 0.6 μg of? DNA, or 0.6 μg of? -Mind III dig set with 10 units of enzyme for 1 hour at 74°C.

\*All ofTakara's PCR polymenses are provided with dNTPs and buffer. They guaranteelow DNA an zyme contamination (s.10 fg).

+ Pvertor doning efficiency diminishes as the length of the PCR product to be closed increases above 5 kb. ¥ Dye added "Load N Go" Premixes.

\*\* All fidelity determined by using the Kunkel method # Ridelity determined by direct sequencing.

#When amplifying GC-rich templates, the fidelity is

reduced.

SWhen used with GC Buffer L

Best Good Ave mge Poor

**!::**.