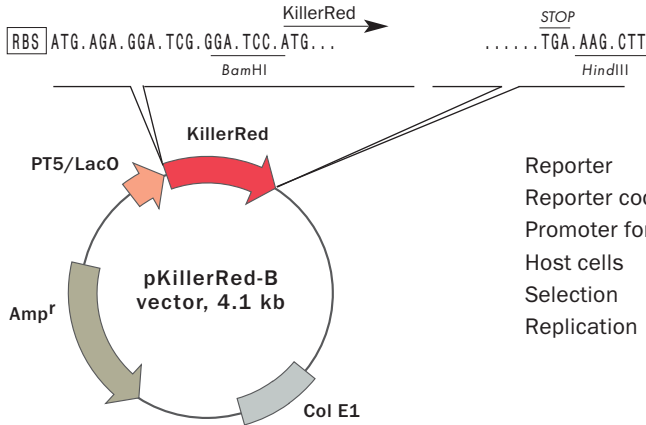


Bacterial expression vector pKiller-Red-B

Product	Cat.#	Size
pKiller-Red-B	FP963	20 µg

Please contact your local distributor for exact prices and delivery information.



Reporter	KillerRed
Reporter codon usage	mammalian
Promoter for KillerRed	T5 promoter/lac operator
Host cells	prokaryotes
Selection	ampicillin
Replication	ColE1 ori

For vector sequence, please visit our Web site at www.evrogen.com/support/vector-info.shtml

Use

- KillerRed expression in bacterial cells using T5 promoter/lac operator
- Source of the KillerRed coding sequence

References

Haas, J., et al. (1996) Codon usage limitation in the expression of HIV-1 envelope glycoprotein. *Curr. Biol.* 6:315–324.

Vector description

pKillerRed-B vector is a prokaryotic expression vector encoding photosensitizer KillerRed. KillerRed codon usage is optimized for high expression in mammalian cells (humanized) (Haas et al., 1996).

The vector is primarily intended as a source of KillerRed coding sequence. Flanking restriction sites are convenient for KillerRed gene excision and its further insertion into other expression vectors of choice. Alternatively, KillerRed coding sequence can be amplified by PCR.

Note: The plasmid DNA was isolated from *dam*⁺-methylated *E.coli*. Therefore some restriction sites are blocked by methylation. If you wish to digest the vector using such sites you will need to transform the vector into a *dam*⁻ host and make fresh DNA.

The vector can be also used for KillerRed expression in prokaryotes under the control of T5 promoter/lac operator. The vector backbone contains ColE1 origin of replication and ampicillin resistance gene for propagation and selection in *E. coli*.

Location of features:

T5 promoter/lac operator element: 7–87

T5 transcription start: 61

KillerRed coding sequence: 133-852

Lambda t0 transcriptional termination region: 874-968

rrnB T1 transcriptional termination region: 1730-1828

ColE1 origin of replication: 2304

beta-lactamase coding sequence: 3922-3062

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MATERIAL SAFETY DATA SHEET INFORMATION

To the best of our knowledge, these products do not require a Material Safety Data Sheet. However, all the properties of these products (and, if applicable, each of their components) have not been thoroughly investigated. Therefore, we recommend that you use gloves and eye protection, and wear a laboratory coat when working with these products.