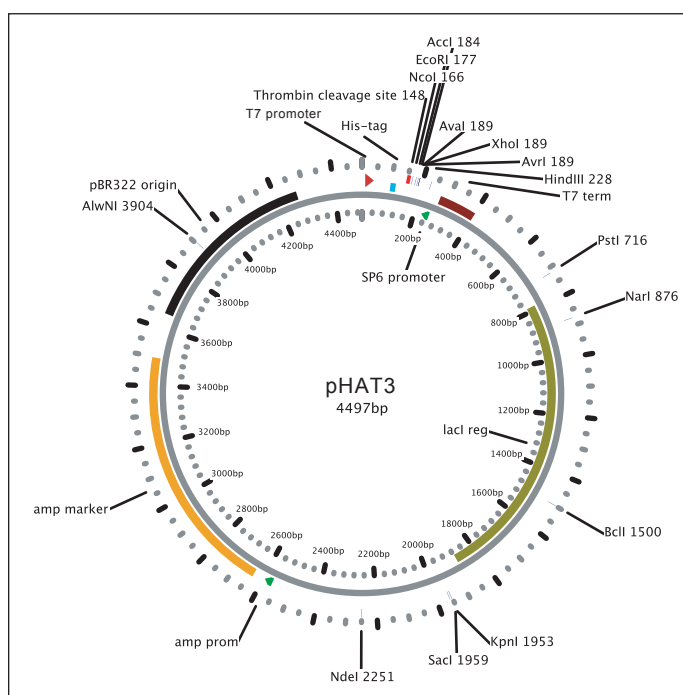


# pHAT His-tag fusion vectors



## Feature table

	Position in pHAT2
T7 promoter	1 - 17
lac operator	21 - 42
T7 gene 10 RBS	50 - 80
His-tag	98 - 115
Polylinker	83 - 175
SP6 promoter	180 - 198
T7 transcription terminator	277 - 318
LacI gene (coding region)	728 - 1809
$\beta$ -lactamase (coding region)	2579 - 3429
Origin of replication	3504 - 4199



## References:

Reference for pHAT is:

Peränen J., Rikkinen M., Hyvönen M., Käriäinen L. (1996)

T7 vectors with modified T7lac promoter for expression of proteins in *Escherichia coli*. Anal. Biochem., 236:371-373

pHAT2 and pHAT5 were created by Marko Hyvönen.

pHAT3 was cloned from pTAT8 by SpeI deletion by David Story.

pHAT4 was cloned by SpeI deletion from pGAT3 by Carina Lobley and Mairi Kilkenny.

For more information see <http://www-cryst.bioc.cam.ac.uk/~marko/vector>, or email [marko@cryst.bioc.cam.ac.uk](mailto:marko@cryst.bioc.cam.ac.uk)