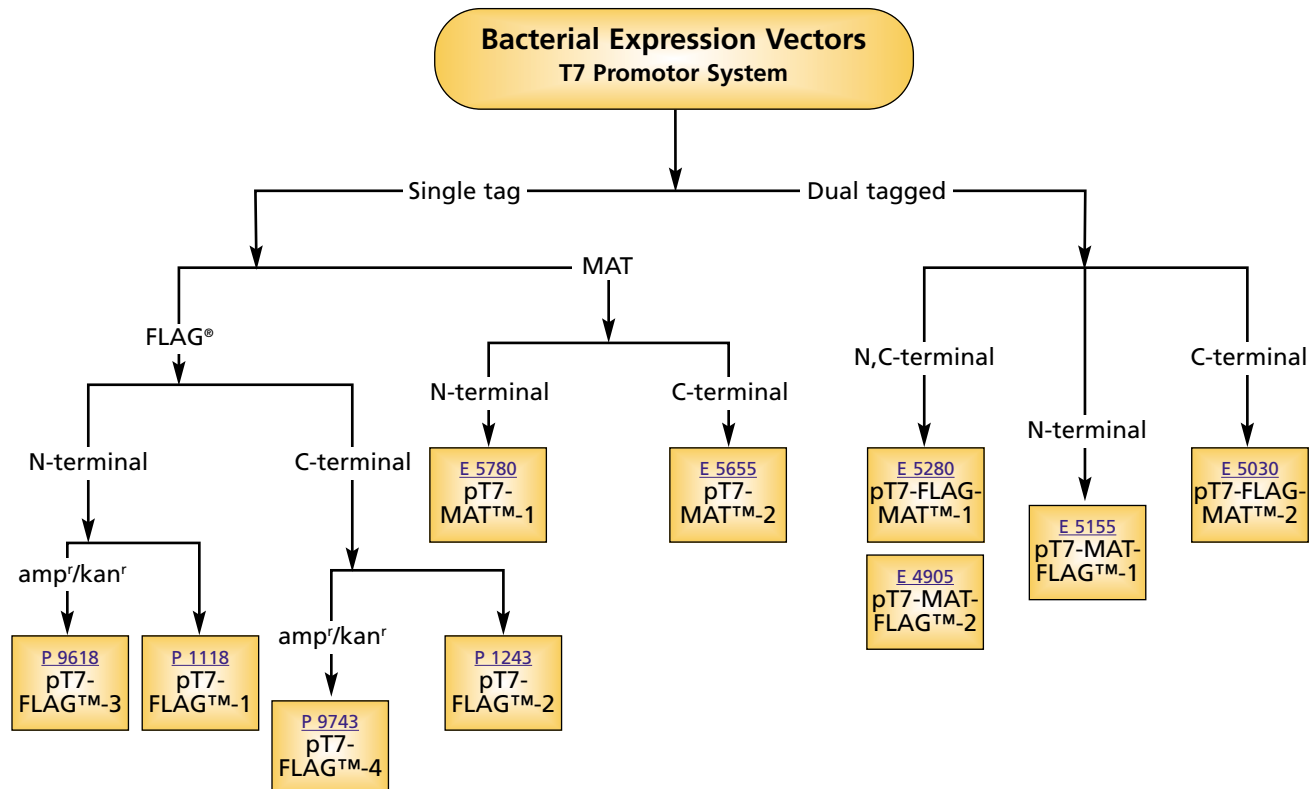
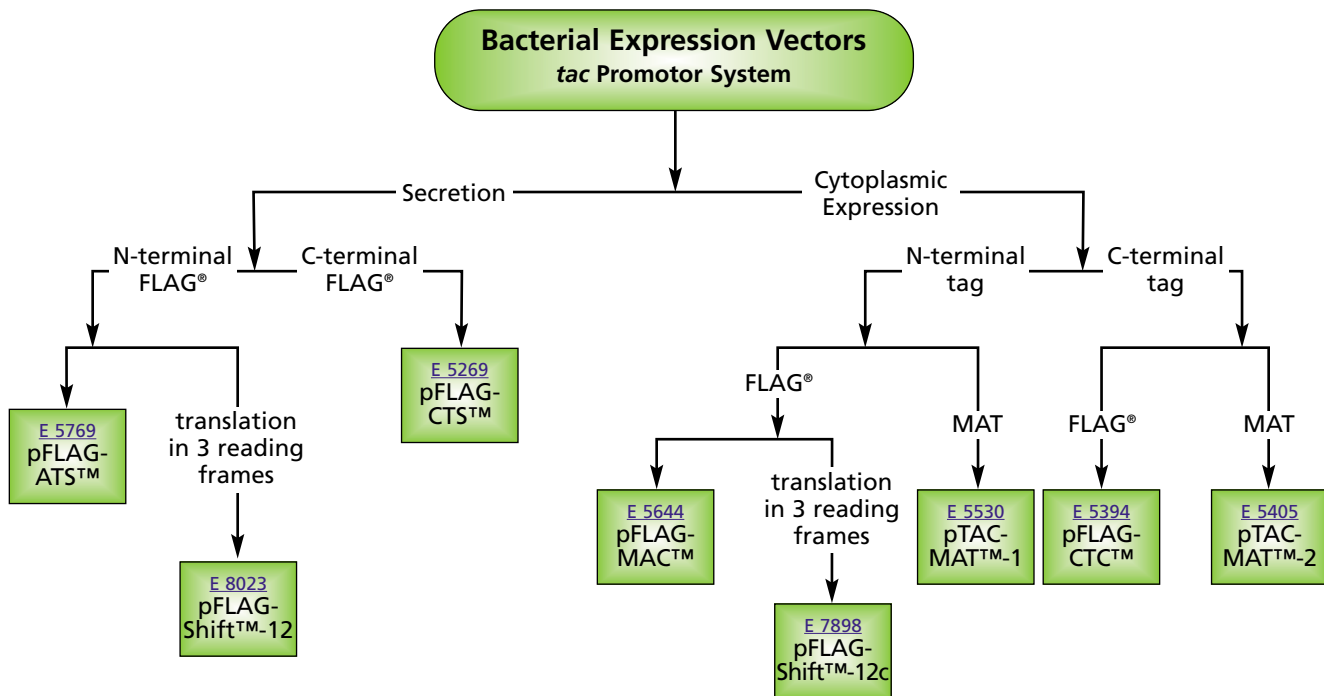


CLONING AND EXPRESSION

Bacterial Expression Vectors

Bacterial *tac* and T7 promoter-based vectors allow expression, detection and purification of recombinant FLAG® and MAT™ (Metal Affinity Tag) fusions in *E. coli*. Bacterial FLAG® vectors offer a choice of periplasmic (+OmpA) or cytoplasmic expression with either amino- or carboxy-terminal tagging. Several vectors containing the T7 promoter offer dual tag options for FLAG and MAT-tagged fusion proteins. These vectors confer ampicillin resistance for easy selection of positive transformants. Additionally, the vectors contain the *lacI* gene for repression of the *tac* and T7 promoters, the T1T2 transcriptional terminator, the pMB1 (derivative of pBR322) origin of replication, and the f1 origin.



Bacterial Expression Vector Selection Table

tac and T7 promoter systems

Product	Product Name	Promoter	FLAG	MAT	OmpA	Ek Site	amp ^r	kan ^r
E 5769	pFLAG-ATS	<i>tac</i>	N		√	√	√	
E 5644	pFLAG-MAC	<i>tac</i>	N			√	√	
E 5269	pFLAG-CTS	<i>tac</i>	C		√		√	
E 5394	pFLAG-CTC	<i>tac</i>	C				√	
E 8023	pFLAG-Shift ₁₂	<i>tac</i>	N		√	√	√	
E 7898	pFLAG-Shift _{12c}	<i>tac</i>	N			√	√	
E 5530	pTAC-MAT-1	<i>tac</i>		N			√	
E 5405	pTAC-MAT-2	<i>tac</i>		C			√	
P 1118	pT7-FLAG-1	T7//lacO	N			√	√	
P 1243	pT7-FLAG-2	T7//lacO	C				√	
E 5780	pT7-MAT-1	T7//lacO		N			√	
E 5655	pT7-MAT-2	T7//lacO		C			√	
E 5280	pT7-FLAG-MAT-1	T7//lacO	N	C		√	√	
E 4905	pT7-MAT-FLAG-2	T7//lacO	C	N			√	
E 5155	pT7-MAT-FLAG-1	T7//lacO	N	N		√	√	
E 5030	pT7-FLAG-MAT-2	T7//lacO	C	C			√	
P 9618	pT7-FLAG-3	T7//lacO	N			√	√	√
P 9743	pT7-FLAG-4	T7//lacO	C				√	√

N = N-terminal tag C = C-terminal tag OmpA = periplasmic localization Ek = Enterokinase cleavage site
 amp^r = ampicillin resistance gene kan^r = kanamycin resistance gene