

**Supplementary Table 1| Available Q-system DNA constructs.**

Name	Description	Addgene ID
<b>QF constructs</b>		
<b>pattB-QF-hsp70</b>	<b>QF sequence with hsp70 terminator, in attB PhiC31 integrase vector. This vector is recommended for cloning of QF constructs.</b>	<b>24368</b>
pattB-QF	QF ORF with SV40 terminator. Leads to higher expression of QF.	24367
pattB-DSCP-QF	QF ORF with DSCP promoter and SV40 terminator.	24369
pBac-GH146-QF	piggyBac vector containing GH146 enhancer element driving QF. Marked by 3xP-DsRed	24353
pQF-ET	QF-sv40 enhancer trap.	24365
pQF-M2ET	QF-sv40 enhancer trap flanked by LoxM2 and LoxP sites, compatible with RCME.	24364
pCMV-QF	Mammalian QF tissue culture expression vector. CMV promoter driving QF.	24339
pAC-QF	<i>Drosophila</i> QF tissue culture expression vector. Actin5C promoter driving QF.	24338
<b>QS constructs</b>		
<b>pBS-SK-QS</b>	<b>QS ORF cloned into pBluescript vector. Recommended for cloning of QS ORF.</b>	<b>24370</b>
ptubP-QS	pCasper4 vector containing tubulin promoter driving QS.	24352
pUASTattB-QS	PhiC31 integrase attB vector containing UAS-QS	24366
CMV-QS	Mammalian QS tissue culture expression vector. CMV promoter driving QS.	24340
pAC-QS	<i>Drosophila</i> QS tissue culture expression vector. Actin5C promoter driving QS.	24341
<b>QUAS constructs</b>		
<b>pQUAST</b>	<b>QUAST P-element transformation vector for cloning of QUAS-geneX constructs.</b>	<b>24349</b>
pQUAST-mCD8-GFP	Membrane targeted GFP expression vector.	24351
pQUAST-mtdT-3xHA	Membrane targeted tandem Tomato red fluorescent expression vector with 3x C-terminal HA tag.	24354
pQUAST-nuclacZ	Nuclear targeted beta-galactosidase expression vector.	24356
pQUAST-shibire <sup>ts1</sup>	Temperature sensitive dynamin expression vector.	24362
pQUAST-FLPo	Mammalian optimized FLPase expression vector.	24357
pQUAST-DSCP+FLPo	Mammalian optimized FLPase expression vector with DSCP promoter.	24358
pCa4B2G-QUAS-FLPo	Mammalian optimized QUAS-FLPase flanked by gypsy insulators.	24359
pQUAST-FRT-STOP-FRT-mCD8GFP	Intersectional vector. QUAS followed by FRT site, two transcriptional terminators, FRT site, and membrane targeted GFP.	24361
pQUAST-FRT-STOP-FRT-shibire <sup>ts1</sup>	Intersectional vector. QUAS followed by FRT site, two transcriptional terminators, FRT site, and temperature sensitive dynamin.	24363
pQUAS-GG	Mammalian tissue culture expression vector. QUAS driving GFP expression.	24336
QUAS-luc2	Tissue culture expression vector. QUAS driving firefly luciferase expression.	24337

Plasmids, sequence files, and plasmid maps are available at Addgene ([www.addgene.com](http://www.addgene.com)). Annotated plasmid maps are found in Addgene under the "Author's map" section. To find the annotated GenBank sequence files in Addgene, click the "Additional Documents" link. Constructs in **BOLD** are recommended for cloning.