FPB-xx-44x

Fluorescent ProteinPaintbox™ - *E.coli*

Description

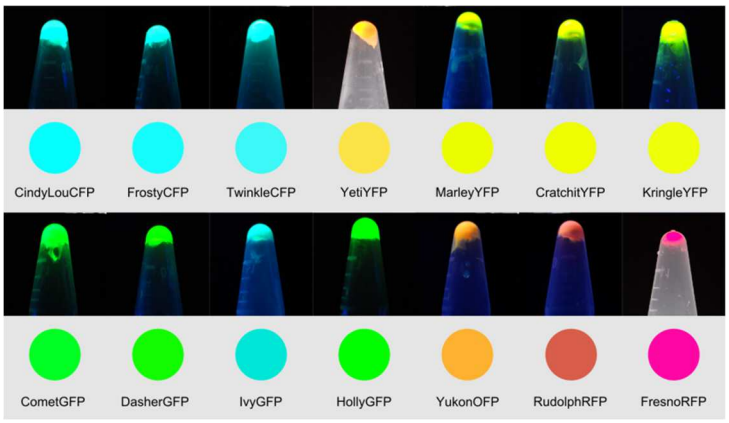
ATUM's synthetic non-aequorea fluorescent proteins are intended to be used as a source of different fluorescent protein coding sequences (genes) that can be amplified by PCR or easily excised using the flanking BsaI restriction sites and cloned into any other expression vector of choice. These vectors can also be used as expression vectors (T5 promoter) or as positive controls and allow monitoring of inducible protein expression.

ATUM Vectors

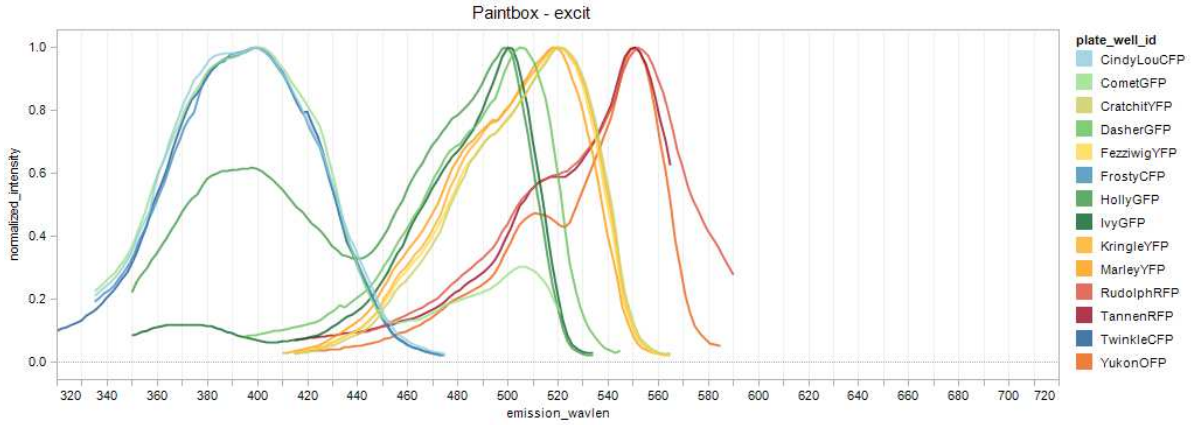
Cat # (Amp^R)	Name	Ex. max (nm)	Em. max (nm)	Mol. Wt. kDa	Length (aa)	Maturation at 37°C	Cell toxicity
FPB-20-444	CindyLouCFP	400	495	26.0	234 aa	Fast	not observed
FPB-21-444	FrostyCFP	400	495	26.5	237 aa	Fast	not observed
FPB-47-444	TwinkleCFP	400	495	26.1	234 aa	Fast	not observed
FPB-25-444	YetiYFP	518	546	26.4	237 aa	Fast	not observed
FPB-23-444	MarleyYFP	520	535	26.4	237 aa	Fast	not observed
FPB-24-444	CratchitYFP	520	540	26.4	237 aa	Fast	not observed
FPB-48-444	KringleYFP	520	542	26.4	237 aa	Fast	not observed
FPB-26-444	CometGFP	395	515	26.4	238 aa	Fast	not observed
FPB-27-444	DasherGFP	505	525	26.6	237 aa	Fast	not observed
FPB-28-444	IvyGFP	500	510	24.9	222 aa	Fast	not observed
FPB-29-444	HollyGFP	500	515	26.0	234 aa	Fast	not observed
FPB-30-444	YukonOFP	550	563	25.4	227 aa	Fast	not observed
FPB-31-444	RudolphRFP	553	570	25.3	227 aa	Fast	not observed
FPB-54-444	FresnoRFP	553	592	26.0	233aa	Fast	not observed

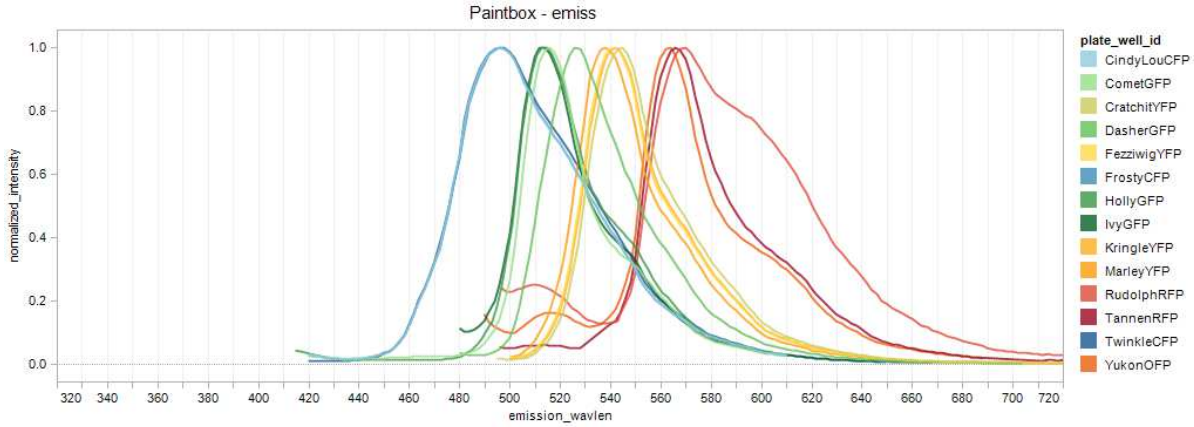
2ug Package size. Store at room temperature. Once DNA is re-suspended in water or TE, store at -20^{o}C.

Fluorescent Protein expression



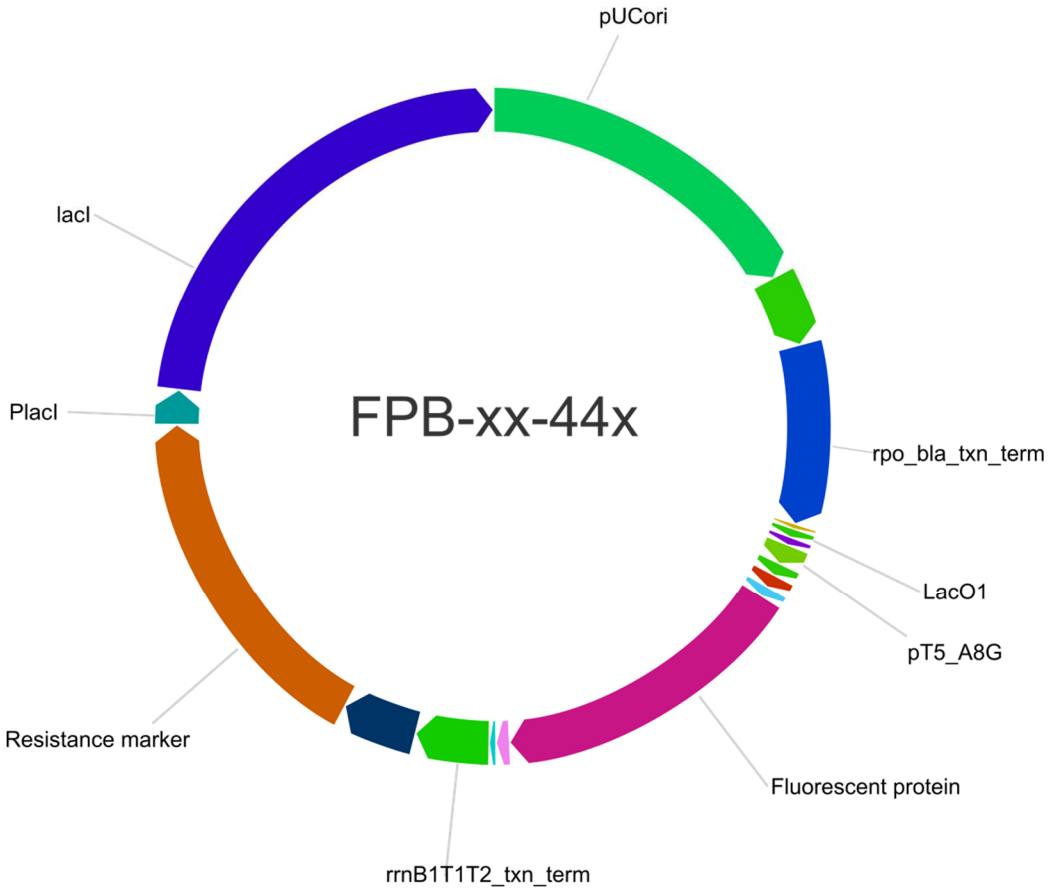
Excitation/Emission spectra





For individual spectra, please see www.atum.bio/products/protein-paintbox#Data2

Vector Map



Cloning Information

Fluorescent protein can be excised by using a Type IIs cutter **BsaI** to cut the vector. Two unique BsaI sites flank the fluorescent protein (FP), one that is 5' to the FP ORF and one immediately following the FP stop codon.

Vector images are from Gene Designer software (www.atum.bio/genedesigner2). When you purchase this vector, you will receive a complimentary copy of the Gene Designer file for the vector, allowing you to view and manipulate the cloning region and all sequences.

Intellectual Property Statement

Available online: www.atum.bio/company/terms-and-conditions