

Supplementary Figure 8. Alignment of wtGFP, BFP, A5, and Azurite Amino Acid Sequences

		Section 1					
		1	10	20	30	40	50
wtGFP	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
BFP	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
A5	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
Azurite	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
		Section 2					
		51	60	70	80	90	100
wtGFP	(51)	GKLPVPWPTLVTTFSYGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
BFP	(51)	GKLPVPWPTLVTTFSHGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
A5	(51)	GKLPVPWPTLVTTLSHGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
Azurite	(51)	GKLPVPWPTLVTTLSHGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
		Section 3					
		101	110	120	130	140	150
wtGFP	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNINSHNV					
BFP	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNINSHNV					
A5	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNINSHNI					
Azurite	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNINSHNI					
		Section 4					
		151	160	170	180	190	200
wtGFP	(151)	YIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
BFP	(151)	YIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
A5	(151)	YIMADKQKNGIKANFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
Azurite	(151)	YIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
		Section 5					
		201	210	220	238		
wtGFP	(201)	LSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK					
BFP	(201)	LSTQSALS KDPNEKRDHMLLEFVTAAGITHGMDELYK					
A5	(201)	LSTQSALS KDPNEKRDHMLLEFRTAAGITHGMDELYK					
Azurite	(201)	LSTQSALS KDPNEKRDHMLLEFRTAAGITHGMDELYK					