

Supplementary Figure 7. Alignment of wtGFP, BFP, A5, and Azurite Amino Acid Sequences

		Section 1					
	(1)	1	10	20	30	40	50
wtGFP	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
BFP	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
A5	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
Azurite	(1)	MSKGEELFTGVVPIVLVDGDVNGHKFSVSGEGEGDATYGKLTLLKFICTT					
		Section 2					
	(51)	51	60	70	80	90	100
wtGFP	(51)	GKLPVPWPTLVTTFSYGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
BFP	(51)	GKLPVPWPTLVTTFSHGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
A5	(51)	GKLPVPWPTLVTTLSHGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
Azurite	(51)	GKLPVPWPTLVTTLSHGVQCFSRYPDHMKQHDFPKSAMPEGYVQERTIFF					
		Section 3					
	(101)	101	110	120	130	140	150
wtGFP	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYN Y NSHN V					
BFP	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYN F NSHN V					
A5	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYN A NSHN I					
Azurite	(101)	KDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYN F NSHN I					
		Section 4					
	(151)	151	160	170	180	190	200
wtGFP	(151)	YIMADKQKNGIK V NFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
BFP	(151)	YIMADKQKNGIK V NFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
A5	(151)	YIMADKQKNGIK A NFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
Azurite	(151)	YIMADKQKNGIK V NFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDNHY					
		Section 5					
	(201)	201	210	220	238		
wtGFP	(201)	LSTQSALS K DPNEKRDH M VLL E F V TAAGITHGMDELYK					
BFP	(201)	LSTQSALS K DPNEKRDH M VLL E F V TAAGITHGMDELYK					
A5	(201)	LSTQSALS K DPNEKRDH M VLL E F R TAAGITHGMDELYK					
Azurite	(201)	LSTQSALS K DPNEKRDH M VLL E F R TAAGITHGMDELYK					