

"Cell-free translation reconstituted with purified components" by Y. Shimizu *et al.*

Supplementary Table 1. Expression and activities of the components used in the PURE system

Translation components	Expression vector	Terminus for His-tag attachment	Yields of factors per 1 L culture (mg/L)	Concentration (μg/μl)	Specific activity (U/μg)	Necessary units per 50 μl reaction
AlaRS	pQE30 (<i>SphI-HindIII</i>)	N	47	13	27	94
ArgRS	pET16b (<i>NdeI-BamHI</i>)	N	40	10	1,300	130
AsnRS	pQE30 (<i>BamHI-HindIII</i>)	N	70	30	ND ^a	1 μg
AspRS	pET21a (<i>NdeI-XhoI</i>)	C	58	22	310	130
CysRS	pET21a (<i>NdeI-XhoI</i>)	C	63	25	500	31
GlnRS	pET21a (<i>NdeI-XhoI</i>)	C	100	36	330	63
GluRS	pET21a (<i>NdeI-XhoI</i>)	C	81	26	150	94
GlyRS	pET21a (<i>NdeI-XhoI</i>)	C	65	30	520	250
HisRS	pET21a (<i>NdeI-XhoI</i>)	C	59	30	1,600	31
IleRS	pET21a (<i>NdeI-HindIII</i>)	N	48	20	63	130
LeuRS	pET21a (<i>XbaI-XhoI</i>)	C	65	22	940	190
LysRS	pET21a (<i>NdeI-XhoI</i>)	C	110	35	580	190
MetRS	pET21a (<i>XbaI-XhoI</i>)	C	67	27	3,000	310
PheRS	pQE30 (<i>SphI-HindIII</i>)	N	51	23	15	63
ProRS	pET21a (<i>NdeI-XhoI</i>)	C	19	16	120	63
SerRS	pET21a (<i>XbaI-XhoI</i>)	C	90	17	1,000	94
ThrRS	pQE30 (<i>BamHI-HindIII</i>)	N	110	19	200	63
TrpRS	pET21a (<i>NdeI-XhoI</i>)	C	40	11	600	31
TyrRS	pET21a (<i>NdeI-XhoI</i>)	C	93	22	1,800	31
ValRS	pET21a (<i>XbaI-NotI</i>)	C	56	20	1,700	156
MTF	pET21a (<i>NdeI-XhoI</i>)	C	48	12	230	230
IF1	pQE30 (<i>BamHI-HindIII</i>)	N	102	37		
IF2	pQE30 (<i>BamHI-HindIII</i>)	N	87	35		
IF3	pQE30 (<i>BamHI-HindIII</i>)	N	17	1.5		
EF-G	pQE60 (<i>MunI-BglII</i>)	C	81	20		
EF-Tu	pQE60 (<i>EcoRI-BglII</i>)	C	13	7		
EF-Ts	pQE60 (<i>NcoI-BamHI</i>)	C	45	9		
RF1	pQE60 (<i>BamHI-HindIII</i>)	C	19	2.9		
RF3	pQE30 (<i>EcoRI-BamHI</i>)	N	121	41		
RRF	pQE60 (<i>EcoRI-BamHI</i>)	C	60	15		

^aND, Not determined.