

Coding sequences and amino acid sequences of proteins used in this study

Plasmid name	pSF345
Encoded protein	His ₁₀ -TEV-Nsp1p ¹⁻⁶⁰¹ -Cys
Features (nt)	4-33 His ₁₀ -tag
	40-63 TEV protease recognition site
	76-1875 Nsp1p ¹⁻⁶⁰¹

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1 atgccaccaccatcaccatcaccaccatcaccacggatccggagaaaacctgtacttccagggtacctccatggggaacttcaatacacct
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  Q Q N K T P F S F G T A N N N S N T T N Q N S S T G A G A F
181 ggaacaggtaaatcaacatttggtttcaacaattctgcgcccacaaacacgaacaatgcaaaactcttcaatcacacctgcatctggtagc
  G T G Q S T F G F N N S A P N N T N N A N S S I T P A F G S
271 aataacactggtaataactgcattcggtaacagtaaccccacaagtaacgtttttggcagcaacaattctacgactaatacatctggtagt
  N N T G N T A F G N S N P T S N V F G S N N S T T N T F G S
361 aatagtcaggacatccctttttggatcttcagtgctcaacaacgaagagcaatggaactgctggaggaaatcacatttggttcttca
  N S A G T S L F G S S S A Q Q T K S N G T A G G N T F G S S
451 tccttattcaataacagtaataatagcaatcagcaaaaacctgcgttcggcggttgtaatttggcggcgcaataacacaaactcctagc
  S L F N N S T N S N T T K P A F G G L N F G G N N T T P S
541 tcgaccggtaatgctaacacaagtaataacttatttggcgctaccgcaaatgcaataagccagccttttcttcttggtgcaaccactaac
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631 gacgataaaaaacagaaaccagacaagcctgttctccttcaattcaagtgtcggtaataagacagacgctcaagctcccactacagga
  D D K K T E P D K P A F S F N S S V G N K T D A Q A P T T G
721 ttttctttggttcacaactaggtggaacaaaacggtaaacgaggtgcaaacgcttcccttctcatttggttcaggatcagctgggtc
  F S F G S Q L G G N K T V N E A A K P S L S F G S G S A G A
811 aaccagctggagcttcgcaaccgaacctacaactaatgaaccagcaaacaccgcttcttcttggtagctgcaacatccgacaataag
  N P A G A S Q P E P T T N E P A A K P A L S F G T A T S D N K
901 acaactaacacaacccaagtttttctggttggtgtaaatcggatgaaaaataagctgggtgctacttcttaagcctgcttctcattcggt
  T T N T T P S F S F G A K S D E N K A G A T S K P A F S F G
991 gctaagccagaagaaaagaagatgataatcctcaaacaccagctttctcatttgggtgcaaatcaaatgaagacaagcaagatggaacg
  A K P E E K K D D N S S K P A F S F G A K S N E D K Q D G T
1081 gctaagccagcattttcctttggtgcaaacgcccgggagaagaataacaatgaaacctccaagcggcatttcttcttggagcaaaagtct
  A K P A F S F G A K P A E K N N N E T S K P A F S F G A K S
1171 gatgagaaaaaggatggtgatgcctcctaaacctgcttctcttggcgctaaaccggatgaaaaataagctagtgtacttctaaacct
  D E K K D G D A S K P A F S F G A K P D E N K A S A T S K P
1261 gccttctcattcggcgctaaagcagaagaaaagaagatgataatcctcaaacaccagcttctcatttgggtgcaaatcaaatgaagac
  A F S F G A K P E E K K D D N S S K P A F S F G A K S N E D
1351 aagcaagatggaacggctaagccagcattttcctttggtgcaaacgcccgggaaaagaataacaatgaaacttccaagccggcatttctc
  K Q D G T A K P A F S F G A K P A E K N N N E T S K P A F S
1441 tttggagcaaaagtcgatgagaaaaaggatggcgatgcctcctaaacctgccttctcatttgggtgcaaatcggatgaaaaaaggacagt
  F G A K S D E K K D G D A S K P A F S F G A K S D E K K D S
1531 gattctcgaagcctgccttctcatttggtaactaaatcgaatgaaaaaaaggacagtggttcttcgaagcctgcttctcattcgggtc
  D S S K P A F S F G T K S N E K K D S G S S K P A F S F G A
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1711 aaatcagcctttcatttgggttcaagcctacaggaaggaaggcagtgggcgcaaggtgccatttcttgggtgctaaaccgcaa
  K S A F S F G S K P T G K E E G D G A K A A I S F G A K P E
1801 gaacagaaatccagtgatagcagcaagcagcgtttacttttgggtgctcaaaaagataatgagaagaaaacagagtgctga
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Plasmid name pSF847
 Encoded protein His₁₀-TEV-Nup57p¹⁻²³³-Nup49p¹⁻²⁴⁶-Cys
 Features (nt) 4-33 His₁₀-tag
 40-60 TEV protease recognition site
 76-771 Nup57p¹⁻²³³
 781-1515 Nup49p¹⁻²⁴⁶

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S N N G F G N K P A G S T G F S F G Q N N N N N T N T Q P S A
181 tcaggatttgggttggggcagccagcaaatctctgggacggctactaccggagggttgggtgcaaatcagccacaaatacttttggg
S G F G F G G S Q P N S G T A T T G G F G A N Q A T N T F G
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S N Q Q S S T G G G L F G N K P A L G S L G S S T T A S G
361 actacagctactggaacaggtttatttgggcaacaaacagcacaacctcaacaatccaccattggagggttatttggaaacaagcca
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A G G L F G Q A S G A S T G N A N T G F S F G G T Q T G Q N
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T G P S T G G L F G A K P A G S T G G L G A S F G Q Q Q Q Q
991 tctcagacaaatgcatttggaggaagcggcaccaccggggggttttcggtaacaaacctcaacaatacggcgaacactggggggggg
S Q T N A F G G S A T T G G G L F G N K P N N T A N T G G G
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L F G A N S N S N S G S L F G S N N A Q T S R G L F G N N N
1171 actaataatataataatagtagtgatggaatgaataatgcaagcgtggactatttggctcaaacctgaggaggcacttcttggctc
T N N I N N S S S G M N N A S A G L F G S K P A G G T S L F
1261 ggtaataacaagcactcttcggccctgcgcagaaaccaggcagatggttgggtgcaaaaccagctgttacatctctattcggcaataatgca
G N T S T S S A P A Q N Q G M F G A K P A G T S L F G N N A
1351 ggtaatacagcactgggtggaggttatttggctccaaaccgacaggagcaacgtcttgggttccatcaataaacaacaacaataac
G N T T T G G G L F G S K P T G A T S L F G S S N N N N N
1441 aataatagtaacaacatcatgagtgctcaggcgggtatttggtaatcagcagcagcaactgcagcagcaaccatggtga
N N S N N I M S A S G G L F G N Q Q Q Q L Q Q Q P C *

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Plasmid name pSF851
 Encoded protein His₁₄-TEV-IBB-MBP-mEGFP
 Features (nt) 1-78 His₁₄-tag
 79-96 TEV protease recognition site
 103-288 *S. cerevisiae* Srp1p²⁻⁶³
 295-1395 Maltose-binding protein (MBP)
 1408-2118 mEGFP

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F Q G S D N G T D S S T S K F V P E Y R R T N F K N K G R F
181 tctgcagatgaactctgctgctgtagatagatacacaacagggtcgaattaagaaaagcaaaaagagatgaagctttggccaaaagaagaac
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T G D G P D I I F W A H D R F G G Y A Q S G L L A E I T P D
541 aaagcgttccaggacaagctgtatccgtttacctgggatgacctgacctacaacggcaagctgattgcttaccgatcgtgttgaagcg
K A F Q D K L Y P F T W D A V R Y N G K L I A Y P I A V E A
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G K S A L M F N L Q E P Y F T W P L I A A D G G Y A F K Y E
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991 tccaacatcgacaccagcaagtgattatggtgtaacggtaactgcccaccttcaagggtcaaccatccaacgcttctggtggcgctg
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N A Q K G E I M P N I P Q M S A F W Y A V R T A V I N A A S
1351 ggtcgtcagactgctgatgaagccctgaaaagcgcgagactaatggcaccggaaccagcaagggcgaggagctgttaccgggggtggtg
G R Q T V D E A L K D A Q T N G T G T S K G E E L F T G V V
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P I L V E L D G D V N G H K F S V S G E G E G D A T Y G K L
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T L K F I C T T G K L P V P W P T L V T T L T Y G V Q C F S
1621 cgctacccccaccacatgaagcagcagcacttctcaagtcggccatgccgaaggtcactcaggagcgcaccatcttctcaaggac
R Y P D H M K Q H D F F K S A M P E G Y V Q E A R T I F F K D
1711 gacggcaactacaagaccgcccaggtgaagttcgagggcgacaccctggtgaaccgcatcgagctgaagggcactgacttcaaggag
D G N Y K T R A E V K F E G D T L V N R I E L K G I D F K E
1801 gacggcaactcctggggcacaagctggagtacaactacaacgccacaacgtctatatcatggccgacaagcagaagaacggcactcaag
D G N I L G H K L E Y N Y N S H N V Y I M A D K Q K N G I K
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V N F K I R H N I E D G S V Q L A D H Y Q Q N T P I G D G P
1981 gtgctgctgcccgacaaccactacctgagcaccagtcggcctgagcaaaagacccaacgagaagcgcgatcacatggtccttaaggag
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2071 ttcgtgaccgcccgggatcactctcgcatggacgagctgtacaagtaa
F V T A A G I T L G M D E L Y K *

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Plasmid name pSF844
 Encoded protein His₁₄-TEV-MBP-mCherry
 Features (nt) 1-78 His₁₄-tag
 79-96 TEV protease recognition site
 103-1203 Maltose-binding protein (MBP)
 1216-1917 mCherry

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N A A S P N K E L A K E F L E N Y L L T D E G L E A V N K D
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K P L G A V A L K S Y E E E L A K D P R I A A T M E N A Q K
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1891 accggcgcatggacgagctgtacaagtaa
T G G M D E L Y K *

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Plasmid name pSF846
Encoded protein His₁₄-TEV-mCherry
Features (nt) 1-78 His₁₄-tag
79-96 TEV protease recognition site
103-804 mCherry

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F Q G T S K G E E D N M A I I K E F M R F K V H M E G S V N
181 ggccacgagttcgagatcgagggcgagggcgagggcccctacgagggcaccagaccgccaagctgaaggtgaccaaggggtggcccc
G H E F E I E G E G E G R P Y E G T Q T A K L K V T K G G P
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L P F A W D I L S P Q F M Y G S K A Y V K H P A D I P D Y L
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K L S F P E G F K W E R V M N F E D G G V V T V T Q D S S L
451 caggacggcgagttcatctacaaggtgaagctgcgcgccaccaacttcccctccgacggccccgtaatgcagaagaagaccatgggctgg
Q D G E F I Y K V K L R G T N F P S D G P V M Q K K T M G W
541 gaggcctcctccgagcggatgtaccccgaggacggcgcctgaagggcgagatcaagcagaggctgaagctgaaggacggcgccactac
E A S S E R M Y P E D G A L K G E I K Q R L K L K D G G H Y
631 gacgctgaggtcaagaccacctacaaggccaagaagcccgtgcagctgcccgccctacaacgtcaacatcaagttggacatcacctcc
D A E V K T T Y K A K K P V Q L P G A Y N V N I K L D I T S
721 cacaacgaggactacaccatcgtggaacagtacgaacgcgcccagggccgacctccaccggcggcatggacgagctgtacaagtaa
H N E D Y T I V E Q Y E R A E G R H S T G G M D E L Y K *
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Plasmid name pSF856
 Encoded protein His₁₄-TEV-IBB-MBP-mCherry
 Features (nt) 1-78 His₁₄-tag
 79-96 TEV protease recognition site
 103-288 *S. cerevisiae* Srp1p²⁻⁶³
 295-1395 Maltose-binding protein (MBP)
 1408-2109 mCherry

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S A D E L R R R R R D T Q Q V E L R K A K R D E A L A K R R N
271 tttattccccaactgatggtaccaaaactgaagaaggtaaactggaatctggattaacggcgataaaggctataacggctctcgtgaa
F I P P T D G T K T E E G K L V I W I N G D K G Y N G L A E
361 gtcggtaagaaattcgagaagataccggaattaaagtcaaccgttgagcatccggataaaactggaagaaattccacaggttcggcca
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K A F Q D K L Y P F T W D A V R Y N G K L I A Y P I A V E A
631 ttatcgctgatttataacaagatctgctgcccgaaccggcaaaaactgggaagagatcccgccgctggataaagaactgaaagcga
L S L I Y N K D L L P N P P K T W E E I P A L D K E L K A K
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G K S A L M F N L Q E P Y F T W P L I A A D G G Y A F K Y E
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N G K Y D I K D V G V D N A G A K A G L T F L V D L I K N K
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L P G A Y N V N I K L D I T S H N E D Y T I V E Q Y E R A E
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G R H S T G G M D E L Y K *

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Plasmid name pSF881
 Encoded protein His₁₄-TEV-IBB-ZsGreen
 Features (nt) 1-78 His14-tag
 79-96 TEV protease recognition site
 103-288 *S. cerevisiae* Srp1p²⁻⁶³
 295-987 ZsGreen

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Plasmid name pQE30 scImpβ
 Encoded protein Kap95p-His₆
 Features (nt) 13-2595 scImpβ
 2608-2625 His₆-tag

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2611 caccatcaccatcactaa
H H H H H *

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Plasmid name pSF586
 Encoded protein His₁₀-GFP-TEV-Yrb4p
 Features (nt) 4-33 His₁₀-tag
 40-751 GFP
 763-784 TEV protease recognition site
 790-4131 Yrb4p

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Plasmid name pSF587
 Encoded protein His₁₀-GFP-TEV-scImpβ
 Features (nt) 4-33 His₁₀-tag
 40-751 GFP
 763-784 TEV protease recognition site
 790-3375 scImpβ

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Plasmid name pSF588
 Encoded protein His₁₀-GFP-TEV-Pse1p
 Features (nt) 4-33 His₁₀-tag
 40-751 GFP
 763-784 TEV protease recognition site
 790-4059 Pse1p

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F A *

Plasmid name pSF879
 Encoded protein His₁₀-GFP-TEV-Crm1p
 Features (nt) 4-33 His₁₀-tag
 40-751 GFP
 763-784 TEV protease recognition site
 793-4047 Crm1p

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Plasmid name pQE60-hsTrn1
 Encoded protein hsTrn1-His₆
 Features (nt) 1-2670 human Transportin 1
 2683-2700 His₆-tag

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Plasmid name	pQE60-hsImp β ⁴⁵⁻⁴⁶²	
Encoded protein	hsImp β ⁴⁵⁻⁴⁶² -His ₆	
Features (nt)	4-1257	hsImp β ⁴⁵⁻⁴⁶²
	1270-1287	His ₆ -tag

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