

Supplementary Information

Table S1. Primers.

Name of Primer	Sequence of Primer (5'-3')
Mx <i>DsIRT1</i> -F	CGTCGACCATGTCTGAGGAGGAC
Mx <i>DsIRT1</i> -R	TTACACTAGTAGCCCACTTTGCCA
XbaI-Mx <i>IRT1</i> -F	TTCTTCTAGAATGGCTGCCACCAA
XbaI-Mx <i>IRT1</i> -R	ATTGGATCCTCAGCCCACTTTGCC
XbaI- Mx <i>DsIRT1</i> -F	TTCTTCTAGAATGTCTGAGGAGGAC
BamHI-Mx <i>IRT1</i> -R	ATTGGATCCTCAGCCCACTTTGCC
HindIII-SP-F	TTCTAAGCTTATGGCTGCCACCAAGT
BamHI-SP-R	ATTGGATCCTCTTTGAGGGGCACAG
XbaI-SP-F	TTCTTCTAGAATGGCTGCCACCAAGT
BamHI-SP-R	ATTGGATCCTCTTTGAGGGGCACAG
XbaI-ΔSP-F	TTCTTCTAGAATGTCTGAGGAGGACG
BamHI-SP-TM1-R	ATTGGATCCTCGTTTCGATCGGGGTG
XbaI-TM1-F	TTCTTCTAGAATGTCTGAGGAGGACG

Table S2. Fusion protein construction

Name of Fusion Proteins	Amino Acids Sequence
SP-eGFP	MAATKSHLKLPIIFFILIISILTPKAYSQSEEDE CSTENTSSCNDKSGAVPLK-eGFP
ΔSP-eGFP	MSEEDCSTENTSSCNDKSGAVPLK-eGFP
SP-TM1-eGFP	MAATKSHLKLPIIFFILIISILTPKAYSQSEEDCSTENTSSCN DKSGAVPLKIIALVSILVTSMIGVSFPLVTRSIPAFHPDRN-eGFP
TM1-eGFP	MSEEDCSTENTSSCNDKSGAVPLK IIALVSILVTSMIGVSFPLVTRSIPAFHPDRN-eGFP