

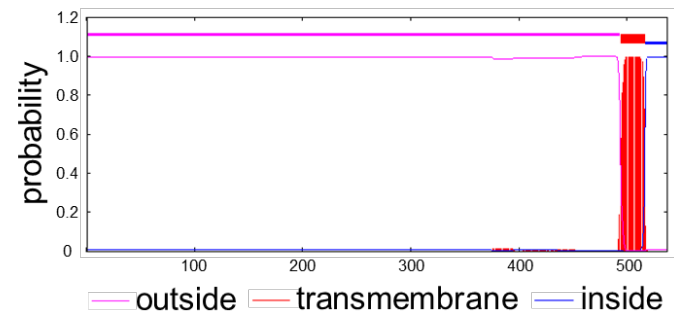
A

## Signal peptide

MFSFKSFVFAALLSSCEASVRARKLSNELIAGFEPRTVVTDHNAIDLDAQKIEDLLATPSTDTFSSARDVYEQGSHS  
 KSFAVLTLDPALTVAVPEGTVISGKNEDGSTVSGTALKSYSVGDTTIEIQYSTGNTQATYVDCQVGGNPDNPTSGCF  
 AANGTVTISGSSGSLPYSYDPLVNNDNGRTIQGFSTAAETRFRPSGGGELFPDFQKFFDY YGTLTYADEWVQSAFAR  
 RSTSFSGKDADF SKYGDDGILQAVKKG TAYISIAMYVIRELEDALDDCDRGCDTADCND DAVHALDEAVAFWTGSLE  
 GKDGSGSGVLMYGLADTRCINFKTCGRNGDEASGKSKVNFEIFRHFDTMQREL TNKRCNSARATKEKIVPMMIVPLI  
 QGVLR YAYIIENDGFTEKAEAE GATFAAAVLPYVASCNAEDA KTIYDNMRVGLGGGASYSTVFDAFVRQSSCMGISC  
 SDIGGYWNEAQGAYEEGAGPCGGSGSGDDGANVGLAVGLSIGLLVLVLLGVLLRRRRSASGSTVEFKDTGSTPI\*

Transmembrane  
domain

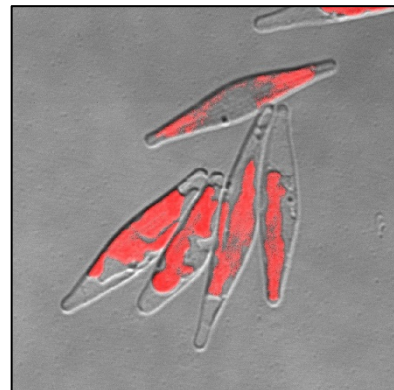
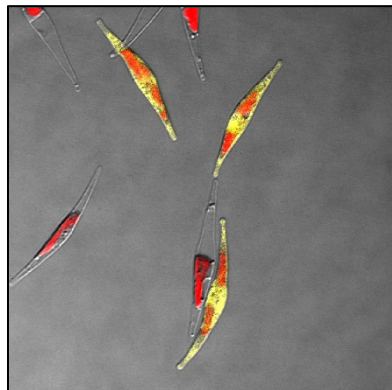
Tail  
domain



B

pTF-APEX2

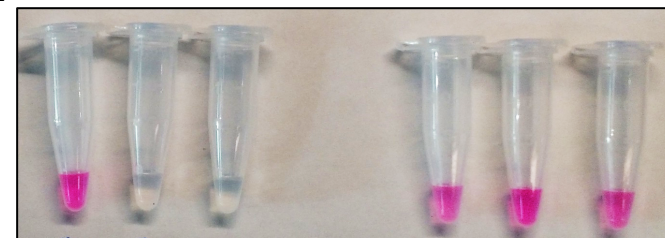
WT



C

Amplex UltraRed  
H<sub>2</sub>O<sub>2</sub>

+	+	-	+	+	+
+	-	+	+	+	+



s3

s1 s2 s4