

Förster Resonance Energy Transfer Mapping: A New Methodology to Elucidate Global Structural Features

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Materials

Name	Company	Catalog Number	Comments
490 nm LED laser	Horiba	1684-LED	
Alexa Fluor 647 C2 Maleimide/DIBO Alkyne	Life Technologies	A20347	
Agar	Difco	DF0812	
Alexa Fluor 488 C5 Maleimide/DIBO Alkyne	Life Technologies	A10254	
Alexa Fluor 488 DIBO Alkyne	Life Technologies	S10904	
Alexa Fluor 647 DIBO Alkyne	Life Technologies	S10906	
Amicon Ultra4 Centrifugal filter (50kDa MWCO)	Sigma	UFC805008	
Dodecylmaltoside (DDM)	Anatrace	D310	
<i>E. coli</i> alkaline phosphatase signal peptide SP22	Biomolecules Midwest	N/A	Synthesized custom item
extended signal peptide SP41	Biomolecules Midwest	N/A	Synthesized custom item
FluorEssence	Horiba	version 2.4	spectral acquisition program for Fluoromax4 spectrofluorometer
Fluoromax 4 spectrofluorometer	Horiba	N/A	
GlobalsWE	Laboratory for Fluorescence Dynamics, University of California, Irvine		spectral analysis program for time-resolved decays
H4AzidoPheOH	BACHEM	4020250.0001	
LB (Miller) Broth	Fisher Scientific	BP9723	
Ludox HS-40 colloidal silica (40 wt.% suspension in H ₂ O)	Sigma-Aldrich	420816	dilution is needed to make a proper scattering solution
PTI Felix GX	Horiba	version 4.1.0.4096	spectral acquisition program for PTI Time Master Instrument
PTI Time Master Instrument	Horiba	NA	
Pymol Molecular Graphics Program	Schrodinger	version 2.4	
Water bath	Thermo Scientific	NESLAB RTE 10	