

AirID-Based Proximity Labeling for Protein-Protein Interaction in Plants

 Ahmad Zada^{*1}, Imran Khan^{*1}, Min Zhang¹, Yuting Cheng¹, Xueyun Hu¹
¹College of Bioscience and Biotechnology, Yangzhou University

*These authors contributed equally

Corresponding Author

Xueyun Hu

xyhulab@yzu.edu.cn

Citation

 Zada, A., Khan, I., Zhang, M., Cheng, Y., Hu, X. AirID-Based Proximity Labeling for Protein-Protein Interaction in Plants. *J. Vis. Exp.* (187), e64428, doi:10.3791/64428 (2022).

Date Published

September 16, 2022

DOI

10.3791/64428

URL

jove.com/video/64428

Materials

Name	Company	Catalog Number	Comments
Acetosyringone	Beijing solaribo science and technology Co.Ltd	S1519	
Acryl/Bis 30% solution	Sangon Biotech (Shanghai) Co.Ltd	1510KA4528	
Agar	BioFroxx GmbH	D64683	
Agarose	tsingke (Shanghai) Co.Ltd	TSJ001	
Ammonium bicarbonate	Sangon Biotech (Shanghai) Co.Ltd	G313BA0018	
Biotin	BBI life Sciences	G908BA0012	
CaCl ₂	BBI life Sciences	E209BA0008	
Competent cells GV3101	Made in the current experiment		
Desalting column	Thermo scientific	WC321753	
Deoxycholic acid	Sangon Biotech (Shanghai) Co.Ltd	G818BA0029	
DH5α competent cells	Made in the current experiment		E.coli DH5α
β-D-maltoside	Beijing Scolari Science and Tech Co.Ltd	S818	
EDTA	Sangon Biotech (Shanghai) Co.Ltd	E104BA0029	
Glycine	Sangon Biotech (Shanghai) Co.Ltd	161BA0031	
HEPES	Beijing solaribo science and technology Co.Ltd	H8090	
LiCl	Sangon Biotech (Shanghai) Co.Ltd	H209BA0003	
MES	Beijing solaribo science and technology Co.Ltd	M8019	
MiraCloth	EMD Milipore Corp/MERCK kgAa Darmstadt, Germeay	3429963	Quick filtration material filter
MgCl ₂	Beijing solaribo science and technology Co.Ltd	20200819	
NaCl	Sangon Biotech (Shanghai) Co.Ltd	H324BA0003	
NP40	Sangon Biotech (Shanghai) Co.Ltd	N8030	
Protein inhibitor cocktail	Beijing Scolari Science and Tech Co.Ltd	S3450	

PVDF	BIO-RAD	5820172	
SDS	Beijing Scolari Science and Tech Co.Ltd	S1015	
Silwet	Sangon Biotech (Shanghai) Co.Ltd	S9430	
Streptavidin-C1-conjugated magnetic beads	Enriching Biotechnology	7E511E1	Magnetic beads
TEMED	Servicebio	G2056	
Triton X-100	Sangon Biotech (Shanghai) Co.Ltd	GB03BA007	
Tris-HCl	Sangon Biotech (Shanghai) Co.Ltd	F828BA0020	
Tryptone	Thermo scientific	LP0042	