

Materials List for:

# Transcriptome-Wide Profiling of Protein-RNA Interactions by Cross-Linking and Immunoprecipitation Mediated by FLAG-Biotin Tandem Purification

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## Materials

Name	Company	Catalog Number	Comments
<b>Equipment</b>			
UV crosslinker	UVP	HL-2000 HybriLinker	
<b>Affinity Purification Beads</b>			
ANTI-FLAG beads	Sigma-Aldrich	A2220	
Streptavidin beads	Invitrogen	112.06D	
<b>Reagents</b>			
10x PBS	Gibco	70013032	
3 M NaOAc	Ambion	AM9740	
3 x FLAG peptide	Sigma-Aldrich	F4799	
ATP	Sigma-Aldrich	A6559	
Calcium chloride (CaCl <sub>2</sub> )	Sigma-Aldrich	C1016	
CIP	NEB	M0290S	CIP buffer is in the same package.
DTT	Sigma-Aldrich	D0632	
EDTA	Sigma-Aldrich	E9884	
EGTA	Sigma-Aldrich	E3889	
Gel purification kit	QIAGEN	28704	
Glycogen	Ambion	AM9510	
Magnesium chloride (MgCl <sub>2</sub> )	Sigma-Aldrich	449172	
MNase	NEB	M0247S	
NP-40	Amresco	M158-500ML	
PMSF	Sigma-Aldrich	10837091001	
Proteinase K	TAKARA	9033	
Protease inhibitor cocktail	Sigma-Aldrich	P8340	
Q5 High-Fidelity 2X Master Mix	NEB	0492S	
reverse transcriptase (SuperscriptIII)	Invitrogen	18080093	
RNA isolation reagent (Trizol)	Invitrogen	15596018	
RNase Inhibitor	ThermoFisher	EO0381	
RNaseOUT	Invitrogen	10777019	
RQ1 Dnase	Promega	M6101	
SDS	Sigma-Aldrich	1614363	
Sodium chloride	Sigma-Aldrich	S9888	
Sodium deoxycholate	Sigma-Aldrich	D6750	

T4 PNK	NEB	M0201S	PNK buffer is in the same package.
T4 RNA ligase	ThermoFisher	EL0021	T4 RNA ligase buffer and BSA are in the same package.
T4 RNA ligase2, truncated	NEB	M0242S	T4 RNA ligase buffer and 50% PEG are in the same package.
Trypsin-EDTA	ThermoFisher	25200072	
Urea	Sigma-Aldrich	208884	
<b>mESC culture medium</b>			
DMEM (80%)	Gibco	11965126	
2-Mercaptoethanol	Gibco	21985023	
FCS (15%)	Hyclone		
Glutamax (1%)	Gibco	35050061	
LIF			purified recombinant protein; 10,000 fold dilution
NEAA (1%)	Gibco	11140050	
Nucleoside mix (1%)	Millipore	ES-008-D	
Penicillin-Streptomycin (1%)	Gibco	15140122	
<b>Kit</b>			
DNA gel extraction kit	QIAGEN	28704	