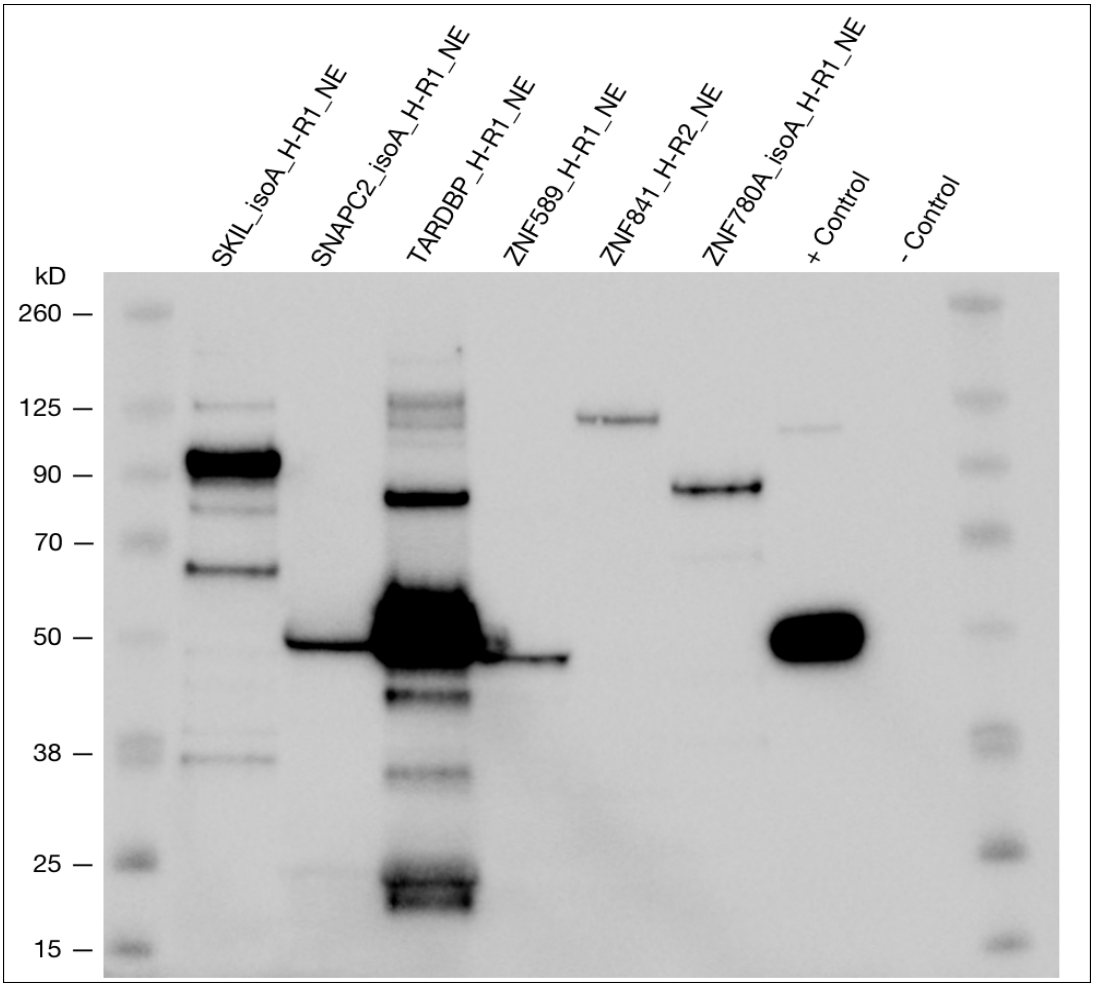
SKIL (*Homo sapiens*), SNAPC2 (*Homo sapiens*), TARDBP (*Homo sapiens*), ZNF589 (*Homo sapiens*), ZNF841 (*Homo sapiens*), and ZNF780A (*Homo sapiens*)

Method:
Western Blot Validation

Caption:
Each FLAG-tagged sample was immunoprecipitated from its corresponding nuclear/cyto protein isolate (500 uL) using the FLAG Immunoprecipitation Kit (Sigma-Aldrich; cat# FLAGIPT1). The final elution step was performed by suspending the sample-bound resin in NuPage Sample Reducing Agent 10X and NuPage LDS Sample Buffer 4X (Thermo Fisher Scientific) and heating for 3 minutes at 90C. Followed by cooling on ice, the protein samples were loaded onto a NuPage 4-12% Bis-Tris gel (Thermo Fisher Scientific) and separated using a PowerEase 90W system (Thermo Fisher Scientific) running at 150 V for 1 hour. A blank IP was included as a negative control, and an immunoprecipitated FLAG-BAP fusion protein provided in the kit as a positive control. The protein bands were transferred to a nitrocellulose membrane using the Invitrogen iBlot 2 System (Thermo Fisher Scientific), and blocked overnight at 4C in 5% milk solution with gentle rocking. The membrane was treated with a 1:5000 dilution of monoclonal M2-Peroxidase-conjugated ANTI-FLAG antibody (diluted in 5% BSA solution) (Sigma-Aldrich; cat# A8592) for 1 hour. Following four 5-minute washes with 1X TBST, visualization was attained with the Super Signal West Femto solution kit (Thermo Fisher Scientific) and a MyECL Imager (Thermo Fisher Scientific).



Lane	Loaded Sample	Expected Band Size (kDa)	Comments
1	Ladder	N/A	N/A
2	FLAG-SKIL_isoA-HepG2 rep 1 (nuclear extract)	77	Distinct band within 20% of the expected size and of that seen in https://www.ptglab.com/products/SKIL-Antibody-19218-1-AP.htm
3	FLAG-SNAPC2_isoA-HepG2 rep 1 (nuclear extract)	36	Distinct band within 20% of that seen in https://www.sigmaaldrich.com/US/en/product/sigma/wh0006618m1
4	FLAG-TARDBP-HepG2 rep 1 (nuclear extract)	45	Distinct band within 20% of the expected size.
5	FLAG-ZNF589-HepG2 rep 1 (nuclear extract)	41	Distinct band within 20% of the expected size.
6	FLAG-ZNF841-HepG2 rep 2 (nuclear extract)	93	Distinct band within 20% of the expected size.
7	FLAG-ZNF780A_isoA-HepG2 rep 1 (nuclear extract)	75	Distinct band within 20% of the expected size.
8	Positive Control (FLAG BAP fusion protein)	NA	PASS
9	Negative Control (Blank IP)	NA	PASS
10	Ladder	N/A	N/A

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Grant: UM1

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