

Table S5 NUSAP1 and RNA:DNA Hybrids interactomes- 33 common interactors

Gene Name	Protein Name
<i>RBMX</i>	RNA-binding motif protein, X chromosome
<i>MKI67</i>	Proliferation marker protein Ki-67
<i>HP1BP3</i>	Heterochromatin protein 1-binding protein 3
<i>CHTOP</i>	Chromatin target of PRMT1 protein
<i>STAU1</i>	Double-stranded RNA-binding protein Staufen homolog 1
<i>PSIP1</i>	PC4 and SFRS1-interacting protein
<i>CCDC86</i>	Coiled-coil domain-containing protein 86
<i>IGF2BP1</i>	Insulin-like growth factor 2 mRNA-binding protein 1
<i>PINX1</i>	PIN2/TERF1-interacting telomerase inhibitor 1
<i>HNRNPA0</i>	Heterogeneous nuclear ribonucleoprotein A0
<i>ILF3</i>	Interleukin enhancer-binding factor 3
<i>CCDC137</i>	Coiled-coil domain-containing protein 137
<i>EIF6</i>	Eukaryotic translation initiation factor 6
<i>PAIRBP1</i>	Plasminogen activator inhibitor 1 RNA-binding protein 1
<i>DHX9</i>	DEAH box protein 9 (ATP-dependent RNA helicase A) (DHX9)
<i>GAR1</i>	H/ACA ribonucleoprotein complex subunit 1
<i>RALY</i>	RNA-binding protein Raly
<i>FUS</i>	RNA-binding protein FUS
<i>NOL7</i>	Nucleolar protein 7
<i>NOP10</i>	H/ACA ribonucleoprotein complex subunit 3
<i>THOC4</i>	THO complex subunit 4
<i>HNRNPCL1</i>	Heterogeneous nuclear ribonucleoprotein C-like 1
<i>NHP2</i>	H/ACA ribonucleoprotein complex subunit 2
<i>CBX3</i>	Chromobox protein homolog 3
<i>NUMA1</i>	Nuclear mitotic apparatus protein 1
<i>RRP15</i>	RRP15-like protein
<i>SRP14</i>	Signal recognition particle 14 kDa protein
<i>HNRNPC</i>	Heterogeneous nuclear ribonucleoproteins C1/C2 (HNRPC)
<i>ILF2</i>	Interleukin enhancer-binding factor 2 (ILF2)
<i>RBMXL1</i>	RNA binding motif protein, X-linked-like-1
<i>RRP12</i>	RRP12-like protein
<i>YBX3</i>	Y-box-binding protein 3
<i>HIST2H2AA</i>	Histone H2A type 2-A