

Mass spectrometry for Band 1

The band indicating binding between nuclear extract of ZNF423 WT LCLs treated with E2 and WT DNA probe in Figure 1B

Protein matches	scanf	Rank	Sp	charge	Ions	dCn	dCn2	XCorr	Reference	Redu	Peptide
993.253 0.00 CCT8 IPI:IPI00302925.4	1615	1/1	2	23/28	0.4274	0.4274	4.2806	CCT8 IPI:IPI00302925.4	2	K.AIADTGA	
993.087 0.00 HSP90B1 IPI:IPI00027230.3	0751	1/110	2	10/14	0.1064	0.1064	2.0677	CCT8 IPI:IPI00302925.4	2	K.DWDDDDQ	
883.806 0.00 HSP90AA1 IPI:IPI00382470.3	0569	1/1	2	14/18	0.2720	0.2720	2.3271	CCT8 IPI:IPI00302925.4	1	K.ETEGDVI	
664.365 0.00 PDIA6 IPI:IPI00299571.5	1027	1/1	2	17/20	0.2810	0.2810	3.8979	CCT8 IPI:IPI00302925.4	2	K.GEENLM*	
663.934 0.00 HSPA5 IPI:IPI00003362.2	2199	1/3	2	16/20	0.1089	0.1089	2.4781	CCT8 IPI:IPI00302925.4	2	K.LATNAA	
663.312 0.00 VCP IPI:IPI00022774.3	2820	1/1	2	19/22	0.3041	0.3041	3.4342	CCT8 IPI:IPI00302925.4	2	K.LFVTNDA	
553.243 0.00 EIF4A1 IPI:IPI00025491.1	2514	1/1	2	20/26	0.3881	0.3881	4.1630	CCT8 IPI:IPI00302925.4	2	K.NVGLDIE	
443.592 0.00 DYNC112 IPI:IPI00216348.1	1450	1/1	2	16/18	0.3456	0.3456	3.2902	CCT8 IPI:IPI00302925.4	1	R.AVVDGVI	
443.590 0.00 ANXA6 IPI:IPI00002459.4	2570	1/7	2	15/18	0.2050	0.2050	3.3397	CCT8 IPI:IPI00302925.4	2	R.DIDEVSSI	
334.605 0.00 MYH9 IPI:IPI00019502.3	0330	1/5	2	10/14	0.0857	0.0857	1.8928	HSP90B1 IPI:IPI00027230.3	1	K.AQAYQTQ	
334.241 0.00 ACTN4 IPI:IPI00013808.1	2326	1/1	2	15/24	0.3505	0.3505	3.9053	HSP90B1 IPI:IPI00027230.3	-	K.EEASDYL	
333.617 0.00 MCM3 IPI:IPI00013214.2	0989	1/11	2	11/16	0.0790	0.0790	1.9420	HSP90B1 IPI:IPI00027230.3	1	K.ESTAEDK	
333.585 0.00 HSP90AA2 IPI:IPI00031523.4	2234	1/1	2	22/26	0.4437	0.4437	4.7103	HSP90B1 IPI:IPI00027230.3	-	K.GVVDSDI	
333.353 0.00 ANXA2P2 IPI:IPI000334627.3	1551	1/1	2	15/16	0.1975	0.1975	2.7947	HSP90B1 IPI:IPI00027230.3	-	K.SGTSEFL	
333.194 0.00 ACTA2 IPI:IPI00008603.1	2703	1/9	2	14/20	0.1154	0.1154	2.7321	HSP90B1 IPI:IPI00027230.3	-	K.SILFVPTS	
332.973 0.00 HNRNPK IPI:IPI00216049.1	1952	1/1	2	19/22	0.3501	0.3501	4.0420	HSP90B1 IPI:IPI00027230.3	6	R.ELISNASI	
332.846 0.00 CALML3 IPI:IPI00216984.5	2100	1/7	2	13/18	0.1572	0.1572	2.9496	HSP90B1 IPI:IPI00027230.3	-	R.LSLNIDPI	
332.300 0.00 HTATSF1 IPI:IPI00013788.1	2009	1/2	2	14/16	0.2218	0.2218	2.8121	HSP90B1 IPI:IPI00027230.3	-	R.SGYLLPD	
224.025 0.00 COPB2 IPI:IPI00220219.6	1466	1/2	2	16/20	0.3187	0.3187	3.7371	HSP90AA1 IPI:IPI00382470.3	2	K.DQVANS/	
223.806 0.00 ACTN1 IPI:IPI00013508.5	1206	1/1	2	15/18	0.3020	0.3020	3.3312	HSP90AA1 IPI:IPI00382470.3	5	K.EDQTEYL	
223.597 0.00 CDC37 IPI:IPI00013122.1	1721	1/1	2	18/22	0.2541	0.2541	3.2268	HSP90AA1 IPI:IPI00382470.3	6	K.EGLELPEI	
223.526 0.00 HSP90AB1 IPI:IPI000411633.4	2295	1/1	3	37/132	0.4565	0.4565	6.9092	HSP90AA1 IPI:IPI00382470.3	2	K.LGLGIDEL	
223.477 0.00 LRPPRC IPI:IPI00783271.1	0550	1/1	2	14/20	0.2440	0.2440	2.8321	HSP90AA1 IPI:IPI00382470.3	2	R.DNSTM*C	
223.402 0.00 ACTBL2 IPI:IPI00003269.1	2458	1/2	2	18/26	0.3153	0.3153	3.7699	HSP90AA1 IPI:IPI00382470.3	7	R.GVVDSEI	
223.366 0.00 HSP90AB1 IPI:IPI000414676.6	2171	1/1	2	23/28	0.4230	0.4230	4.9528	HSP90AA1 IPI:IPI00382470.3	2	R.NPDDITNI	
223.191 0.00 ACTB IPI:IPI00021439.1	0282	1/4	2	12/16	0.1177	0.1177	1.6915	HSP90AA1 IPI:IPI00382470.3	1	R.TDTGEPV	
223.161 0.00 IVL IPI:IPI00011692.2	2345	1/1	2	19/22	0.2701	0.2701	3.6792	PDIA6 IPI:IPI00299571.5	1	K.DVIELTDI	
222.948 0.00 SND1 IPI:IPI00140420.4	1019	1/1	2	15/20	0.3280	0.3280	3.0856	PDIA6 IPI:IPI00299571.5	1	K.GESPVDI	
222.918 0.00 XRCC6 IPI:IPI00644712.4	2712	1/1	3	33/56	0.3480	0.3480	5.5163	PDIA6 IPI:IPI00299571.5	1	K.LAAVDA/	
115.838 0.00 IPI:IPI00550731.2 IPI:IPI00550731.2	3066	1/1	3	30/96	0.2790	0.2790	5.2737	PDIA6 IPI:IPI00299571.5	1	R.DGELPVE	
115.320 0.00 YWHAZ IPI:IPI00021263.3	2373	1/1	2	25/32	0.4917	0.4917	4.4088	PDIA6 IPI:IPI00299571.5	1	R.GSTAPVG	
115.315 0.00 ANXA6 IPI:IPI00221226.7	3258	1/1	2	21/26	0.3114	0.3114	4.2278	PDIA6 IPI:IPI00299571.5	1	R.TGEAIVD	
115.285 0.00 HNRNPH1 IPI:IPI00013881.6	2530	1/1	2	18/22	0.3176	0.3176	4.5907	HSPA5 IPI:IPI00003362.2	-	K.ELEEVQI	
115.220 0.00 ILF2 IPI:IPI00005198.2	0903	1/12	2	12/16	0.1049	0.1049	1.9677	HSPA5 IPI:IPI00003362.2	-	K.ITITNDQI	
115.024 0.00 LDHA IPI:IPI00217966.8	2067	1/1	2	22/28	0.3510	0.3510	4.4687	HSPA5 IPI:IPI00003362.2	-	K.NQLTSNP	
114.941 0.00 BAT1 IPI:IPI00641829.5	2447	1/1	2	20/26	0.4046	0.4046	4.8312	HSPA5 IPI:IPI00003362.2	-	K.SDIDEIVL	
114.869 0.00 YWHAQ IPI:IPI00018146.1	2105	1/1	2	27/32	0.4636	0.4636	5.4106	HSPA5 IPI:IPI00003362.2	-	K.SQIFSTAS	
114.706 0.00 ANXA1 IPI:IPI00218918.5	1280	1/1	2	19/20	0.1929	0.1929	3.3366	HSPA5 IPI:IPI00003362.2	15	R.VEIIANDC	
114.527 0.00 ALDOC IPI:IPI00418262.5	2601	1/1	2	13/16	0.1267	0.1267	2.1621	VCP IPI:IPI00022774.3	-	K.DVDLEFL	
114.388 0.00 XRCC5 IPI:IPI00220834.8	2094	1/1	2	16/18	0.2698	0.2698	3.1480	VCP IPI:IPI00022774.3	-	K.GDDLSTA	
114.332 0.00 ENO1 IPI:IPI00465248.5	1116	1/3	2	13/18	0.1420	0.1420	2.3714	VCP IPI:IPI00022774.3	-	K.LAGESES/	
114.300 0.00 TPI1 IPI:IPI00383071.1	1992	1/1	2	18/22	0.2436	0.2436	3.1858	VCP IPI:IPI00022774.3	-	R.EVDIGIPI	
114.276 0.00 TPM2 IPI:IPI00013991.1	0873	1/1	2	20/24	0.2484	0.2484	3.3129	VCP IPI:IPI00022774.3	-	R.GGNIGDG	
114.235 0.00 HNRNPF IPI:IPI00003881.5	2549	1/1	2	26/38	0.4573	0.4573	5.6904	VCP IPI:IPI00022774.3	-	R.LIVDEAIN	
114.135 0.00 TUBB2C IPI:IPI00007752.1	1925	1/1	2	16/20	0.3201	0.3201	3.1032	EIF4A1 IPI:IPI00025491.1	2	K.ATQALVI	
114.001 0.00 RPLP2 IPI:IPI00008529.1	2227	1/1	2	15/16	0.1569	0.1569	2.5072	EIF4A1 IPI:IPI00025491.1	2	K.EELTLEG	
113.676 0.00 RPS17 IPI:IPI00221093.7	1744	1/1	2	23/26	0.4747	0.4747	5.0549	EIF4A1 IPI:IPI00025491.1	9	K.GYDVIAC	
113.664 0.00 RPLP0 IPI:IPI00008530.1	1148	1/51	2	11/14	0.0586	0.0586	2.4043	EIF4A1 IPI:IPI00025491.1	8	R.ELAQQIQ	
113.485 0.00 HNRNPA2B1 IPI:IPI00386854.6	2796	1/1	2	17/18	0.2642	0.2642	3.1431	EIF4A1 IPI:IPI00025491.1	8	R.VLITTDLI	
113.337 0.00 HSPA7 IPI:IPI00011134.2	1470	1/1	2	18/26	0.4064	0.4064	5.5396	DYNC112 IPI:IPI00216348.1	17	K.EAVAPVC	
113.123 0.00 TGM1 IPI:IPI00014581.1	0901	1/1	2	25/40	0.5350	0.5350	5.1412	DYNC112 IPI:IPI00216348.1	16	K.SVSTPSE/	
113.091 0.00 IGLC1 IPI:IPI00154742.6	0438	1/1	2	17/18	0.2392	0.2392	3.8373	DYNC112 IPI:IPI00216348.1	6	R.ADAEPEEA	
113.089 0.00 LMNA IPI:IPI00021405.3	1067	1/17	2	10/12	0.0617	0.0617	1.8488	DYNC112 IPI:IPI00216348.1	12	R.EIVTYTK	
113.072 0.00 TUBA1C IPI:IPI00166768.3	1221	1/2	2	14/20	0.1453	0.1453	2.8479	ANXA6 IPI:IPI00002459.4	1	K.DAIGIGI	
113.047 0.00 EIF5 IPI:IPI00022648.2	2872	1/1	2	17/20	0.2873	0.2873	3.6575	ANXA6 IPI:IPI00002459.4	2	R.DAFVAIV	
112.964 0.00 TPM1 IPI:IPI00000230.6	3016	1/1	3	37/96	0.4054	0.4054	5.9086	ANXA6 IPI:IPI00002459.4	1	R.EEDDVVS	
112.814 0.00 NPM1 IPI:IPI00220740.1	2677	1/2	2	14/16	0.2300	0.2300	1.9465	ANXA6 IPI:IPI00002459.4	2	R.SEIDLNI	

Mass spectrometry for Band 3

The band indicating binding between nuclear extract of ZNF423 variant LCLs treated with E2+4-OH-TAM and variant DNA probe in Figure 1B

Protein matches	scan#	Rank	Sp	charge	Ions	dCn	dCn2	XCorr	Reference	Redu	Peptide
7 7 2.624 0.00 NCL IPI:IPI00183526.6	1710	1/1	<u>2</u>		18/22	0.3751	0.3751	3.2889	NCL IPI:IPI00183526.6	4	K.GLSEDTTE
5 5 2.955 0.00 SFN IPI:IPI00013890.2	2853	1/1	<u>3</u>		27/76	0.2215	0.2215	3.1886	NCL IPI:IPI00183526.6	4	K.GLSEDTTE
4 4 2.992 0.00 TXN IPI:IPI00216298.6	0920	1/3	<u>2</u>		10/12	0.1027	0.1027	1.8357	NCL IPI:IPI00183526.6	4	K.GQNQDYR
4 4 2.859 0.00 NCL IPI:IPI00444262.3	1365	1/2	<u>2</u>		13/16	0.1527	0.1527	2.5683	NCL IPI:IPI00183526.6	3	K.NSTWSGEG
3 3 4.144 0.00 CALML3 IPI:IPI00216984.5	1080	1/12	<u>2</u>		11/14	0.2257	0.2257	2.1711	NCL IPI:IPI00183526.6	4	K.QGTEIDGR
3 3 3.772 0.00 PCNA IPI:IPI00021700.3	2184	1/37	<u>2</u>		10/12	0.0860	0.0860	2.2779	NCL IPI:IPI00183526.6	4	R.LELQGR(C
3 3 3.420 0.00 YWHAG IPI:IPI00220642.7	2410	1/1	<u>2</u>		15/18	0.2396	0.2396	3.0367	NCL IPI:IPI00183526.6	4	R.SISLYYTG(I
3 3 3.073 0.00 YWHAE IPI:IPI00000816.1	0504	1/23	<u>2</u>		11/14	0.2100	0.2100	1.8957	SFN IPI:IPI00013890.2	-	K.EAGDAESF
3 3 2.986 0.00 GAPDH IPI:IPI00219018.7	2167	1/19	<u>3</u>		21/52	0.2531	0.2531	3.4835	SFN IPI:IPI00013890.2	1	K.SNEEGSEE
3 3 2.927 0.00 ANXA2P2 IPI:IPI00334627.3	2343	1/1	<u>3</u>		28/92	0.1157	0.1157	3.9363	SFN IPI:IPI00013890.2	1	R.DNLT(LWT
2 2 3.795 0.00 ATP5B IPI:IPI00303476.1	1765	1/2	<u>2</u>		12/14	0.0574	0.0574	2.5416	SFN IPI:IPI00013890.2	1	R.VLSSIEQK
2 2 3.374 0.00 TUBA1C IPI:IPI00166768.3	2135	1/1	<u>2</u>		18/20	0.2283	0.2283	2.9159	SFN IPI:IPI00013890.2	1	R.YLAEVAT(C
2 2 2.818 0.00 ACTA2 IPI:IPI00008603.1	3093	1/2	<u>2</u>		16/20	0.2067	0.2067	3.2255	TXN IPI:IPI00216298.6	1	K.LEATIN(I
2 2 2.355 0.00 TCEB2 IPI:IPI00026670.3	2582	1/14	<u>2</u>		12/16	0.1192	0.1192	2.3216	TXN IPI:IPI00216298.6	1	K.LEATINEL
1 1 5.804 0.00 MYH9 IPI:IPI00019502.3	2725	1/1	<u>2</u>		20/24	0.3089	0.3089	3.9014	TXN IPI:IPI00216298.6	1	K.TAFOEALI
1 1 5.345 0.00 YWHAZ IPI:IPI00021263.3	1916	1/2	<u>2</u>		12/16	0.3591	0.3591	2.5202	TXN IPI:IPI00216298.6	1	K.VGEFSGAN
1 1 5.139 0.00 ACTBL2 IPI:IPI00003269.1	2405	1/13	<u>2</u>		14/18	0.1987	0.1987	3.0824	NCL IPI:IPI00444262.3	3	K.EVFEDAAI
1 1 5.006 0.00 ANXA2 IPI:IPI00418169.3	2281	1/1	<u>2</u>		15/16	0.3755	0.3755	3.4358	NCL IPI:IPI00444262.3	2	K.NDLAVVD
1 1 4.900 0.00 SSBP1 IPI:IPI00029744.1	2552	1/1	<u>2</u>		15/16	0.2995	0.2995	2.9782	NCL IPI:IPI00444262.3	2	K.TGISDVFA
1 1 4.275 0.00 NACA IPI:IPI00023748.3	1086	1/90	<u>2</u>		9/12	0.0511	0.0511	1.9396	NCL IPI:IPI00444262.3	3	K.VTQDELK
1 1 4.091 0.00 CALML5 IPI:IPI00021536.2	2400	1/1	<u>2</u>		15/20	0.1353	0.1353	3.0156	CALML3 IPI:IPI00216984.5	-	K.LSDEEVDF
1 1 3.902 0.00 HNRNPAB IPI:IPI00334587.1	2309	1/1	<u>2</u>		24/32	0.4545	0.4545	5.7947	CALML3 IPI:IPI00216984.5	-	R.AADTDGD
1 1 3.773 0.00 HSPB1 IPI:IPI00025512.2	2213	1/1	<u>2</u>		17/22	0.3187	0.3187	3.6209	CALML3 IPI:IPI00216984.5	-	R.SLGQNPT
1 1 3.755 0.00 EIF6 IPI:IPI00010105.1	2172	1/1	<u>2</u>		21/24	0.3687	0.3687	3.9321	PCNA IPI:IPI00021700.3	-	K.FSASGELG
1 1 3.716 0.00 HMGB3L1 IPI:IPI00006437.2	0821	1/7	<u>2</u>		10/12	0.1725	0.1725	1.9883	PCNA IPI:IPI00021700.3	-	K.VSDYEM*F
1 1 3.402 0.00 HSP90AA1 IPI:IPI00382470.3	2841	1/1	<u>2</u>		23/36	0.4484	0.4484	5.3956	PCNA IPI:IPI00021700.3	-	R.AEDNADTI
1 1 3.252 0.00 HIST1H4J IPI:IPI00453473.6	2089	1/1	<u>2</u>		22/26	0.3623	0.3623	4.6718	YWHAG IPI:IPI00220642.7	1	K.NVTELNEF
1 1 3.241 0.00 LMNA IPI:IPI00021405.3	0842	1/2	<u>2</u>		15/16	0.2387	0.2387	2.6324	YWHAG IPI:IPI00220642.7	1	R.ATVVE SSE
1 1 3.188 0.00 TUBB IPI:IPI00011654.2	2280	1/1	<u>2</u>		16/18	0.3189	0.3189	2.9567	YWHAG IPI:IPI00220642.7	-	R.YLAEVAT(C
1 1 3.100 0.00 A2ML1 IPI:IPI00419215.5	1968	1/1	<u>2</u>		16/20	0.2896	0.2896	3.1061	YWHAE IPI:IPI00000816.1	1	K.EAAENSLA
1 1 3.066 0.00 IPI:IPI00383732.1 IPI:IPI00383732.1	1274	1/1	<u>2</u>		17/20	0.2998	0.2998	3.8137	YWHAE IPI:IPI00000816.1	-	K.EALQDVEI
1 1 3.028 0.00 TUBB2C IPI:IPI00007752.1	1034	1/2	<u>2</u>		11/12	0.0809	0.0809	2.2988	YWHAE IPI:IPI00000816.1	19	K.LAEQAER
1 1 3.020 0.00 HSPA8 IPI:IPI00003865.1	2418	1/1	<u>2</u>		12/14	0.1157	0.1157	2.5300	GAPDH IPI:IPI00219018.7	3	K.VGVNGFG
1 1 2.944 0.00 EEF1A2 IPI:IPI00014424.1	2671	1/25	<u>2</u>		16/28	0.2474	0.2474	3.1951	GAPDH IPI:IPI00219018.7	5	R.GALQNIIP/
1 1 2.873 0.00 ACTB IPI:IPI00021439.1	2964	1/1	<u>3</u>		25/72	0.3281	0.3281	3.2320	GAPDH IPI:IPI00219018.7	5	R.GALQNIIP/
1 1 2.855 0.00 P4HB IPI:IPI00010796.1	1918	1/1	<u>2</u>		15/16	0.3310	0.3310	2.4304	ANXA2P2 IPI:IPI00334627.3	5	K.AYTNFDAI
1 1 2.814 0.00 IGLC1 IPI:IPI00154742.6	2451	1/7	<u>2</u>		14/18	0.1372	0.1372	2.9165	ANXA2P2 IPI:IPI00334627.3	5	R.DALNIETA

Venn diagram for proteins identified by mass spectrometry

