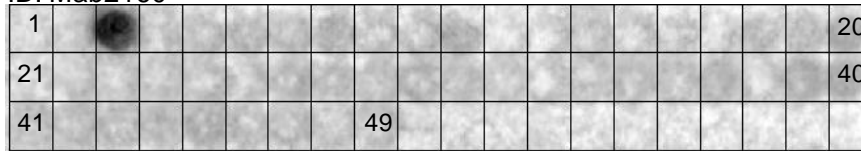


## Supplementary Figure 2

### A

ID: Mab2160



### B

Peptide ID	Starting aminoacid	Peptide sequence	Peptide ID	Starting aminoacid	Peptide sequence	Peptide ID	Starting aminoacid	Peptide sequence
1	1	MEELVVEVRGSDNGAFYKAFV	21	261	TFHIYGEDQDAVKKARSFLE	41	521	ERESFLRRGDGRRRGGGGGRG
2	14	AFYKAFVKDVHEDSITVAFE	22	274	KARSFLEFAEDVIQVPRNLV	42	534	RGGGGRGQGGRGRGGGFKGN
3	27	SITVAFEN <b>NNWQPD</b> RQIPFHD	23	287	QVPRNLVGKVIKNGKLIQE	43	547	GGGFKGNDHSRDTNRPNP
4	40	RQIPFHDVRFPPPVGYNKDI	24	300	NGKLIQEIVDKSGVVRVRIE	44	560	DNRPRNPREAKGRITDGSLSQ
5	53	VGYNKDINESDEVEVYSRAN	25	313	VVRVRIEAENEKNVPQEEI	45	573	TTDGSLSQIRVDCNNERSVHT
6	66	EVYSRANEKEPCCWWLAKVR	26	326	VPQEEIEMPPNSLPSNNSRV	46	586	NERSVHTKTLQNTSSEGSRL
7	79	WWLAKVRMIKGEFYVIEYAA	27	339	PSNNSRVGNAPAEKKHLDI	47	599	SSEGSRLRTGKDRNQKKEKP
8	92	YVIEYAACDATYNEIVTIER	28	352	EKKHLDIKENSTHFSQPNST	48	612	NQKKEKPSVDGGQQPLVNGV
9	105	EIVTIERLRSVNPKNPATKD	29	365	FSQPNSTKVQRVLVASSVVA	49	625	QPLVNGVPSVDGGQQPLVNGV
10	118	NKPATKDTFHKIKLDVPEDL	30	378	VASSVVAGESQKPELKAQQG			
11	131	LDVPEDLRQMCAKEAAHKDF	31	391	ELKAWQGMVPFVFGTKDSI			
12	144	EAAHKDFKKAVGAFSVTYDP	32	404	VGTKDSIANATVLLDYHLNY			
13	157	FSVTYDPENYQLVILSINEV	33	417	LDYHLNYLKEVDQLRLRLQ			
14	170	ILSINEVTSKRAHMLIDMHF	34	430	LRRLRLQIDEQLRQIGASSR			
15	183	MLIDMHFRSLRTKLSLIMRN	35	443	QIGASSRPPPNRTDKEKSYV			
16	196	LSLIMRNEEASKQLESSRQL	36	456	DKEKSYVTDDGQGMGRGSRP			
17	209	LESSRQLASRFHEQFIVRED	37	469	MGRGSRPYRNRGHGRRGPGY			
18	222	QFIVREDLMGLAIGTHGANI	38	482	GRRGPGYTSQTNSEASNASE			
19	235	GTHGANIQQARKVPGVTAID	39	495	EASNASETSDHRDELSDWS			
20	248	PGVTAIDLDEDTCTFHIYGE	40	508	DELSDWSLAPTEERESFLR			

## Supplementary Figure 2: Mapping of the N-terminal Mab2160 epitope

A) A peptide blot covering the whole human FMRP sequence in 20 amino acid long peptides with a 7 amino acid overlap was subjected to Mab2160 incubation with subsequent immunoblot detection. B) Mab2160 epitope was identified as amino acids 34-39 (NNWQPD).