

## Supplemental information

### Suppl. Table 1. miRNAs predominately expressed in cerebrospinal fluid

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hsa-miR-1	hsa-miR-489
hsa-miR-10a	hsa-miR-495
hsa-miR-19a	hsa-miR-511
hsa-miR-20a	hsa-miR-518b
hsa-miR-21	hsa-miR-518e
hsa-miR-27a	hsa-miR-518f
hsa-miR-27b	hsa-miR-519d
hsa-miR-29a	hsa-miR-551b
hsa-miR-29c	hsa-miR-590-5p
hsa-miR-31	hsa-miR-597
hsa-miR-34a	hsa-miR-628-5p
hsa-miR-34c-5p	hsa-miR-660-
hsa-miR-99a	hsa-miR-708
hsa-miR-100	hsa-miR-872
hsa-miR-101	hsa-miR-885-5p
hsa-miR-124	hsa-miR-886-3p
hsa-miR-125b	
hsa-miR-133a	
hsa-miR-133b	
hsa-miR-135a	
hsa-miR-138	
hsa-miR-140-5p	
hsa-miR-142-5p	
hsa-miR-143	
hsa-miR-146a	
hsa-miR-146b-5p	
hsa-miR-152	
hsa-miR-199a-3p	
hsa-miR-204	
hsa-miR-216a	
hsa-miR-218	
hsa-miR-299-5p	
hsa-miR-323-3p	
hsa-miR-335	
hsa-miR-338-3p	
hsa-miR-340	
hsa-miR-346-	
hsa-miR-362-3p	
hsa-miR-365	
hsa-miR-374a	
hsa-miR-375	
hsa-miR-376c	
hsa-miR-410	
hsa-miR-449a	
hsa-miR-449b	
hsa-miR-483-5p	

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Based on microarray analysis

**Suppl. Table 2. miRNAs detected exclusively in cerebrospinal fluid**

hsa-miR-9  
 hsa-miR-15a  
 hsa-miR-32  
 hsa-miR-127-5p  
 hsa-miR-129-3p  
 hsa-miR-135b  
 hsa-miR-137  
 hsa-miR-188-3p  
 hsa-miR-203  
 hsa-miR-208  
 hsa-miR-219-2-3p  
 hsa-miR-219-5p  
 hsa-miR-302c  
 hsa-miR-369  
 hsa-miR-376b  
 hsa-miR-411  
 hsa-miR-424  
 hsa-miR-429  
 hsa-miR-448  
 hsa-miR-450a  
 hsa-miR-450b-5p  
 hsa-miR-452  
 hsa-miR-455-5p  
 hsa-miR-488  
 hsa-miR-491-3p  
 hsa-miR-517c  
 hsa-miR-519a  
 hsa-miR-520g  
 hsa-miR-525-3p  
 hsa-miR-545  
 hsa-miR-615-5p  
 hsa-miR-885-3p  
 hsa-miR-98

Based on microarray analysis

**Suppl. Table 3. miRNA expression levels in cerebrospinal fluid and whole blood of three miRNAs analyzed by microarray and qPCR.**

	CSF	Whole Blood	Paired <i>t</i> -test	<i>d.f</i>	p-value
<b>Microarray</b>					
mir 9 mean $\Delta$ Ct (SD)	6.93 (2.1)	ND			N/A
mir 328	5.82 (1.60)	1.79 (3.83)	2.54	5	0.05
let 7b	2.5 (0.96)	-0.14 (1.65)	3.5	7	0.01
<b>qPCR</b>					
mir 9	2.94 (1.15)	8.03 (5.56)	2.55	5	0.05
mir 328	4.09 (0.66)	0.3 (2.96)	-4.06	6	0.007
let 7b	6.84 (0.99)	0.97 (2.94)	5.63	7	<0.001

CSF: cerebrospinal fluid; *d.f*: degrees of freedom; ND: Not detected; N/A: not applicable due to non-detectable levels in one of the groups.  $\Delta$ CT: Normalized mean Ct levels.

**Suppl. Table 4. Correlation between  $\Delta$ Ct values of cerebrospinal fluid and whole blood for 35 miRNAs fully expressed in both biofluids.**

miRNA	Spearman
hsa-let-7b	0.0238
hsa-let-7d	0.4762
hsa-let-7e	0.381
hsa-miR-16	-0.4048
hsa-miR-17	0.0476
hsa-miR-19b	0.0238
hsa-miR-20b	0.5952
hsa-miR-24	-0.0476
hsa-miR-25	0.6429
hsa-miR-26a	0.4286
hsa-miR-30b	0.1796
hsa-miR-30c	0.1905
hsa-miR-92a	0.1667
hsa-miR-93	0.1905
hsa-miR-106a	0.119
hsa-miR-126	0.4286
hsa-miR-140-3p	-0.0476
hsa-miR-145	-0.2381
hsa-miR-146a	-0.4524
hsa-miR-150	-0.381
hsa-miR-186	0.5714
hsa-miR-191	-0.4311
hsa-miR-195	-0.0238
hsa-miR-197	0.2857
hsa-miR-222	-0.4048
hsa-miR-320	-0.0476
hsa-miR-324-3p	-0.5
hsa-miR-331-3p	0.0359
hsa-miR-342-3p	-0.5714
hsa-miR-374a	-0.381
hsa-miR-425	-0.0476
hsa-miR-484	-0.5
hsa-miR-532-3p	0.3929
hsa-miR-574-3p	0.7857
hsa-miR-886-5p	0.667