

Prediction of microRNAs affecting the syncytin-1 (HERV-W) and syncytin-2 (HERV-FRD) genes regulation in endometriosis and miscarriage

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Table 3a: List of predicted miRNA by DIANA targeting ERVW-1

Target Rank	Ensembl Gene Id	miRNA name	miTG score
1	ENSG00000242950 (ERVW-1)	hsa-miR-4764-5p	0.999991000663365
2	ENSG00000242950 (ERVW-1)	hsa-miR-302b-3p	0.999914086902561
3	ENSG00000242950 (ERVW-1)	hsa-miR-302e	0.999914086902561
4	ENSG00000242950 (ERVW-1)	hsa-miR-3934-5p	0.99991270776813
5	ENSG00000242950 (ERVW-1)	hsa-miR-302d-3p	0.999889128802559
6	ENSG00000242950 (ERVW-1)	hsa-miR-302c-3p	0.999886708172577
7	ENSG00000242950 (ERVW-1)	hsa-miR-302a-3p	0.999865780130068
8	ENSG00000242950 (ERVW-1)	hsa-miR-6895-3p	0.999829975996477
9	ENSG00000242950 (ERVW-1)	hsa-miR-5699-3p	0.999826792574528
10	ENSG00000242950 (ERVW-1)	hsa-miR-610	0.999824236114472
11	ENSG00000242950 (ERVW-1)	hsa-miR-4684-3p	0.999803875665664
12	ENSG00000242950 (ERVW-1)	hsa-miR-509-3p	0.999680713259469
13	ENSG00000242950 (ERVW-1)	hsa-miR-629-5p	0.999658371292083
14	ENSG00000242950 (ERVW-1)	hsa-miR-4667-3p	0.999376233304554
15	ENSG00000242950 (ERVW-1)	hsa-miR-7977	0.999325458335701

Table 3b: List of predicted miRNAs by DIANA targeting ERVFRD-1

Target Rank	Ensembl Gene Id	miRNA name	miTG score
1	ENSG00000244476 (ERVFRD-1)	hsa-miR-1303	0.999932543720518
2	ENSG00000244476 (ERVFRD-1)	hsa-miR-4687-3p	0.999787214672385
3	ENSG00000244476 (ERVFRD-1)	hsa-miR-625-5p	0.999728793069174
4	ENSG00000244476 (ERVFRD-1)	hsa-miR-876-3p	0.998219565879455
5	ENSG00000244476 (ERVFRD-1)	hsa-miR-6781-3p	0.995743191423699
6	ENSG00000244476 (ERVFRD-1)	hsa-miR-193a-5p	0.993645776945572
7	ENSG00000244476 (ERVFRD-1)	hsa-miR-6855-5p	0.992932932710868
8	ENSG00000244476 (ERVFRD-1)	hsa-miR-6165	0.992509783118052
9	ENSG00000244476 (ERVFRD-1)	hsa-miR-7154-5p	0.989742774747029
10	ENSG00000244476 (ERVFRD-1)	hsa-miR-3934-5p	0.983513477792745
11	ENSG00000244476 (ERVFRD-1)	hsa-miR-4728-5p	0.983253157610238
12	ENSG00000244476 (ERVFRD-1)	hsa-miR-5193	0.983134506466176
13	ENSG00000244476 (ERVFRD-1)	hsa-miR-2682-3p	0.977287247130125
14	ENSG00000244476 (ERVFRD-1)	hsa-miR-6780a-5p	0.97722343914932
15	ENSG00000244476 (ERVFRD-1)	hsa-miR-3622b-3p	0.977032092147944

Table 4a: A number of predicted miRNAs by miRWalk targeting ERVW-1

Target Rank	miRNA	Gene symbol	Score	Position	N pairing
1	hsa-miR-6837-3p	ERVW-1	1.00	3UTR	18
2	hsa-miR-3619-3p	ERVW-1	1.00	3UTR	18
3	hsa-miR-6824-5p	ERVW-1	1.00	3UTR	18
4	hsa-miR-4651	ERVW-1	1.00	3UTR	18
5	hsa-miR-6753-3p	ERVW-1	1.00	3UTR	18
6	hsa-miR-3194-3p	ERVW-1	1.00	3UTR	18
7	hsa-miR-3174	ERVW-1	1.00	3UTR	18
8	hsa-miR-6735-3p	ERVW-1	1.00	3UTR	17
9	hsa-miR-6825-5p	ERVW-1	1.00	3UTR	17
10	hsa-miR-509-3p	ERVW-1	1.00	3UTR	17
11	hsa-miR-6843-3p	ERVW-1	1.00	3UTR	17
12	hsa-miR-5010-3p	ERVW-1	1.00	3UTR	17
13	hsa-miR-5088-3p	ERVW-1	1.00	3UTR	17
14	hsa-miR-365b-5p	ERVW-1	1.00	3UTR	17
15	hsa-miR-1185-1-3p	ERVW-1	1.00	3UTR	17
16	hsa-miR-92a-2-5p	ERVW-1	1.00	3UTR	16

Table 4b: A number of predicted microRNAs by miRWalk targeting ERVFRD-1

Target Rank	miRNA	Gene symbol	Score	position	N pairing
1	hsa-miR-6717-5p	ERVFRD-1	1.00	3UTR	17
2	hsa-miR-1909-5p	ERVFRD-1	1.00	3UTR	17
3	hsa-miR-3621	ERVFRD-1	1.00	3UTR	17
4	hsa-miR-564	ERVFRD-1	1.00	3UTR	17
5	hsa-miR-4731-3p	ERVFRD-1	1.00	3UTR	17
6	hsa-miR-6804-5p	ERVFRD-1	1.00	3UTR	17
7	hsa-miR-625-5p	ERVFRD-1	1.00	3UTR	17
8	hsa-miR-4259	ERVFRD-1	1.00	3UTR	17
9	hsa-miR-6732-5p	ERVFRD-1	1.00	3UTR	17
10	hsa-miR-4327	ERVFRD-1	1.00	3UTR	17
11	hsa-miR-6882-3p	ERVFRD-1	1.00	3UTR	17
12	hsa-miR-6090	ERVFRD-1	1.00	3UTR	16
13	hsa-miR-23a-5p	ERVFRD-1	1.00	3UTR	16
14	hsa-miR-105-3p	ERVFRD-1	1.00	3UTR	16
15	hsa-miR-149-3p	ERVFRD-1	1.00	3UTR	16
16	hsa-miR-323a-5p	ERVFRD-1	1.00	3UTR	16