

Figure S1. Workflow for predicting the structure of aptamers and selecting target proteins.

Table S1. Plasma membrane proteins differentially expressed in the MDA-MB-231 strain selected after the validation stage.

Gene	ID UNIPROT	Cellular location (Uniprot)
CSKP	O14936-3	plasma membrane
TMEM205	K7ELQ9	plasma membrane
TM209	Q96SK2-2	plasma membrane
TM245	Q9H330-2	plasma membrane
SCAM4	Q969E2-2	plasma membrane
AGRE5	P48960	plasma membrane

G3V2K7
TM9S3
AT2B1
AT2B3
E9PL82
1A03HLA-A
TSP1
CD151
VAMP7
ADAM9
E41L2
E9PPD9
TMX4
CD63
HLA-A
EGFR
PIP4P2
TMCC1
TM55B
CD44
EPHA2
NCS1
TMEM106C
CEMIP2
MAGI3
TMEM237
TMEM181
VAPA
TMED10
TMCO4
CD46
SMAP1
TMEM199
TMTC3

G3V2K7	plasma membrane
Q9HD45	plasma membrane
P20020-6	plasma membrane
Q16720-8	plasma membrane
E9PL82	plasma membrane
P04439	plasma membrane
P07996	plasma membrane
P48509	plasma membrane
P51809	plasma membrane
Q13443	plasma membrane
O43491	plasma membrane
E9PPD9	plasma membrane
A2BDY9	plasma membrane
F8VV56	plasma membrane
P10316	plasma membrane
P00533	plasma membrane
D6RBT7	plasma membrane
O94876	plasma membrane
U6CTL2	plasma membrane
P16070-4	plasma membrane
P29317	plasma membrane
P62166	plasma membrane
Q9NUM4	plasma membrane
Q9UHN6	plasma membrane
Q5TCQ9	plasma membrane
Q96Q45	plasma membrane
Q9P2C4	plasma membrane
Q9P0L0	plasma membrane
G3V2K7	plasma membrane
Q5TGY1	plasma membrane
Q6VE48	plasma membrane
Q8IYB5	plasma membrane
Q8N511	plasma membrane
Q6ZXV5	plasma membrane

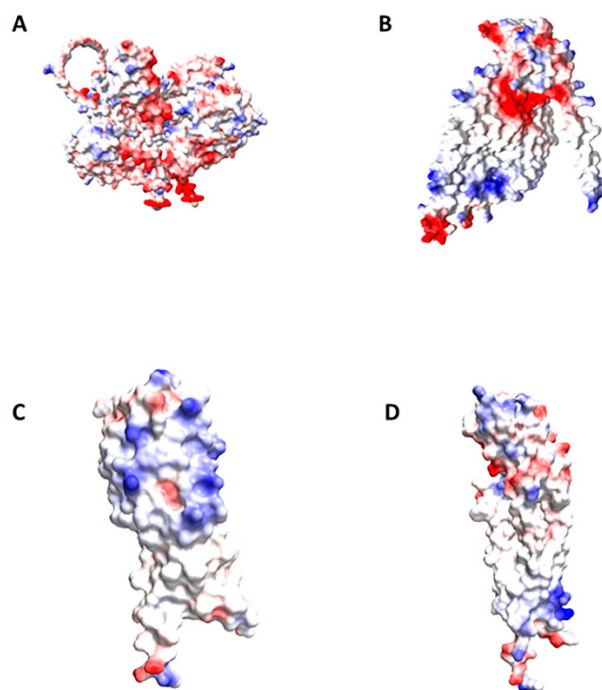


Figure S2. Representation of the electrostatic potential of the proteins selected for the molecular docking step. Analysis of the electrostatic potential of the CASPK (**A**), TM9S3 (**B**), TMEM205 (**C**), and CD151 (**D**) proteins. Blue indicates a positive charge and red indicates a negative charge.