

**Table S1.** Relation of membrane proteins selected as potential targets for aptamers in Caov-3 cells.

<b>Protein</b>	<b>Gene</b>	<b>Uniprot ID</b>	<b>Uniprot Cell Location</b>	<b>PSORT Cell Location</b>	<b>Transmembrane Domain</b>	<b>Topology Membrane*</b>
Secreted and transmembrane protein 1	SECTM1	Q8WVN6	Plasma membrane	Endoplasmic reticulum	1	1a
Integrin beta-4	ITGB4	P16144	Plasma membrane	Extracellular region	1	1a
MHC class I polypeptide -related sequence B	MICB	Q29980	Plasma membrane	Endoplasmic reticulum	1	1a
Oxidized low-density lipoprotein receptor 1	OLR1	P78380	Plasma membrane	Nucleus	1	2
Intercellular adhesion molecule 2	ICAM2	P13598	Plasma membrane	Golgi Complex	1	1a
Receptor-transporting protein 4	RTP4	Q96DX8	Plasma membrane	Cytoplasm	1	Nt
HLA class I histocompatibility antigen, alpha chain F	HLA-F	P30511	Plasma membrane	Endoplasmic reticulum	1	1a
Integrin beta-2	ITGB2	P05107	Plasma membrane	Endoplasmic reticulum	1	1a
Low-density lipoprotein receptor-related protein 8	LRP8	Q14114	Plasma membrane	Extracellular region	1	1a

<b>FXD domain-containing ion transport regulator 3</b>	<b>FXD3</b>	<b>Q14802</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>1</b>	<b>1a</b>
<b>Protein NDRG4</b>	<b>NDRG4</b>	<b>Q9ULP0</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>1</b>	<b>2</b>
<b>Inactive Rhomboid protein 2</b>	<b>RHBDF2</b>	<b>Q6PJF5</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>7</b>	<b>3b</b>
<b>Filamin-A</b>	<b>FLNA</b>	<b>P21333</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>1</b>	<b>2</b>
<b>Alkaline phosphatase, placental type</b>	<b>ALPP</b>	<b>P05187</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>1</b>	<b>1a</b>
<b>Cadherin-5</b>	<b>CDH5</b>	<b>P33151</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>1</b>	<b>1a</b>
<b>Acid sphingomyelinase-like phosphodiesterase 3b</b>	<b>SMPDL3B</b>	<b>Q92485</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>1</b>	<b>1a</b>
<b>Sushi domain-containing protein 2</b>	<b>SUSD2</b>	<b>Q9UGT4</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>1</b>	<b>1a</b>
<b>Metalloreductase STEAP4</b>	<b>STEAP4</b>	<b>Q687X5</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>5</b>	<b>3a</b>
<b>Neuronal cell adhesion molecule</b>	<b>NRCAM</b>	<b>Q92823</b>	<b>Plasma membrane</b>	<b>Cytoplasm</b>	<b>1</b>	<b>Nt</b>
<b>Suppressor of tumorigenicity 14 protein</b>	<b>ST14</b>	<b>Q9Y5Y6</b>	<b>Plasma membrane</b>	<b>Mitochondria</b>	<b>1</b>	<b>2</b>

<b>Claudin-7</b>	<b>CLDN7</b>	<b>O95471</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>3</b>	<b>3a</b>
<b>Ferric- chelate reductase 1</b>	<b>FRRS1</b>	<b>Q6ZNA5</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>6</b>	<b>3b</b>
<b>Adhesion G-protein coupled receptor G1</b>	<b>GPR56</b>	<b>Q9Y653</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>8</b>	<b>3b</b>
<b>Excitatory amino acid transporter 1</b>	<b>SLC1A3</b>	<b>P43003</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>9</b>	<b>3b</b>
<b>Immunoglo- bulin superfamily member 3</b>	<b>IGSF3</b>	<b>O75054</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>1</b>	<b>1a</b>
<b>Mesothelin</b>	<b>MSLN</b>	<b>Q13421</b>	<b>Plasma membrane</b>	<b>Plasma membrane</b>	<b>1</b>	<b>1a</b>

\* Membrane topology: (1a) a cleavable signal sequence and one transmembrane segment, (2) N-terminal portion inserted in the cytoplasmic region, (Nt) uncleavable signal peptide and one transmembrane segment near its C-terminus, (3a) multiple transmembrane regions with its N-terminus facing the cytosolic side, (3b) multiple transmembrane regions with its N-terminus facing the cytosolic side.

**Table S2.** Relation of membrane proteins selected as potential targets for aptamers in Ovar-3 cells.

<b>Protein</b>	<b>Gene</b>	<b>Uniprot ID</b>	<b>Uniprot Cell Location</b>	<b>PSORT Cell Location</b>	<b>Transmembrane Domain</b>	<b>Topology Membrane*</b>
<b>Claudin-6</b>	<b>CLDN6</b>	<b>P56747</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>4</b>	<b>3a</b>
<b>Transmembrane protein 100</b>	<b>TMEM100</b>	<b>Q9NV29</b>	<b>Plasma membrane</b>	<b>Endoplasmic reticulum</b>	<b>3</b>	<b>3a</b>
<b>Very low-density lipoprotein receptor</b>	<b>VLDLR</b>	<b>P98155</b>	<b>Plasma membrane</b>	<b>Extracellular region</b>	<b>1</b>	<b>1a</b>

<b>Sphingomyelin phosphodiesterase 2</b>	SMPD2	O60906	Plasma membrane	Endoplasmic reticulum	1	2
<b>Heat shock protein HSP 90-beta</b>	HSP90AB1	P08238	Plasma membrane	Cytoplasm	1	Nt
<b>Matrix metalloproteinase-15</b>	MMP15	P51511	Plasma membrane	Endoplasmic reticulum	1	1a
<b>Atrial natriuretic peptide receptor 3</b>	NPR3	P17342	Plasma membrane	Golgi Complex	1	1a
<b>HLA class I histocompatibility antigen, A alpha chain</b>	HLA-A	P004439	Plasma membrane	Endoplasmic reticulum	1	1a
<b>MANSC domain-containing protein 1</b>	MANSC1	Q9H8J5	Plasma membrane	Cytoplasm	1	Nt
<b>Protein jagged-1</b>	JAG1	P78504	Plasma membrane	Endoplasmic reticulum	2	3a
<b>Killer cell lectin-like receptor subfamily G member 2</b>	KLRG2	A4D1S0	Plasma membrane	Nucleus	1	2
<b>Uroplakin-1b</b>	UPK1B	O75841	Plasma membrane	Plasma membrane	4	3a
<b>Ephrin type-A receptor 1</b>	EPHA1	P21709	Plasma membrane	Endoplasmic reticulum	1	1a
<b>Neuronal cell adhesion molecule</b>	NRCAM	Q92823	Plasma membrane	Cytoplasm	1	Nt
<b>Suppressor of tumorigenicity 14 protein</b>	ST14	Q9Y5Y6	Plasma membrane	Mitochondria	1	2

<b>Transmembrane channel-like protein 4</b>	TMC4	Q7Z404	Plasma membrane	Plasma membrane	8	3a
<b>Claudin-7</b>	CLDN7	O95471	Plasma membrane	Endoplasmic reticulum	3	3a
<b>Transmembrane protein 100</b>	TMEM100	Q9NV29	Plasma membrane	Endoplasmic reticulum	3	3a
<b>Tetraspanin-15</b>	TSPAN15	O95858	Plasma membrane	Endoplasmic reticulum	4	3a
<b>Adhesion G-protein coupled receptor G1</b>	GPR56	Q9Y653	Plasma membrane	Plasma membrane	8	3b
<b>Immunoglobulin superfamily member 3</b>	IGSF3	O75054	Plasma membrane	Plasma membrane	1	1a
<b>Uroplakin-3b</b>	UPK3B	Q9BT76	Plasma membrane	Extracellular region	0	-
<b>Leukocyte surface antigen CD47</b>	CD47	Q08722	Plasma membrane	Endoplasmic reticulum	5	3a
<b>Mesothelin</b>	MSLN	Q13421	Plasma membrane	Plasma membrane	1	1a

\* Membrane topology: (1a) a cleavable signal sequence and one transmembrane segment, (2) N-terminal portion inserted in the cytoplasmic region, (Nt) uncleavable signal peptide and one transmembrane segment near its C-terminus, (3a) multiple transmembrane regions with its N-terminus facing the cytosolic side.