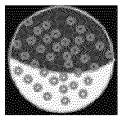
Figure 1

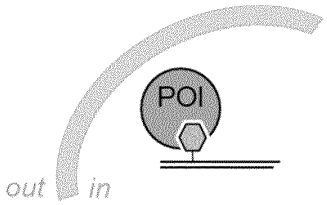
Illustrative example of an embodiment of the method of first aspect herein.

(i): expressing target (POI) in a cell 

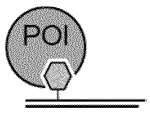
(ii): introducing an *in vitro* display library into the cell of (i), where:
(a): the library is a library of at least 1000 different binding entities wherein each binding entity is attached to a nucleic acid molecule:



(b): under binding conditions:



(iii): making lysis of the cell of (ii) to breaking down the membrane of cells in order to:
(A): get the $B_{BoundTo}T$-structures of (ii) out of the cell:



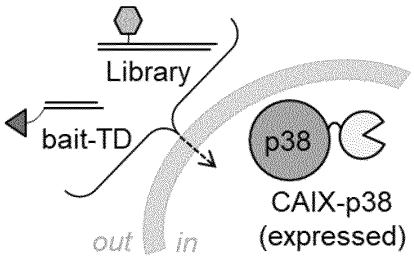
(**iv**): identifying individual binding entity that binds within the cell to target via binding of target of the $B_{BoundTo}T$-structures to a solid support and remove B-structures not bound to target and use of the specific nucleic acid sequence information allowing to identify the binding entity

Figure 2

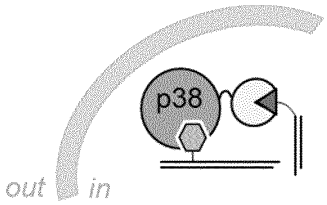
Illustrative example of an embodiment of the method of first aspect herein.

(i): expressing target with a prey in a cell (e.g. oocyte)

(ii): introducing an *in vitro* display library and a bait attached to a nucleic acid molecule (Target DNA – TD) into the cell of (i):



(b): under binding conditions:



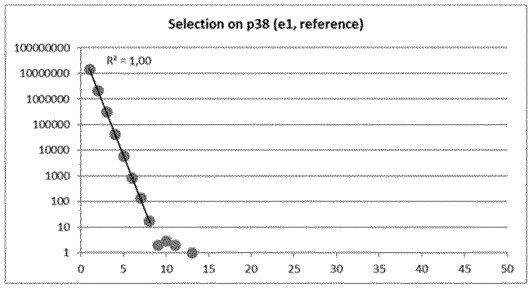
(iii+iv): making lysis of the cell of (ii) identifying individual binding entity that binds within the cell to target via:

1. Dilution of supernatant
2. DNA ligation
3. Ligation STOP
4. DNA purification
5. rPCR

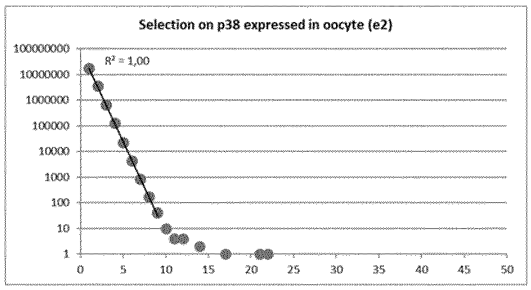
Figure 3

Results of working Example 1 herein – for further details see the Example 1.

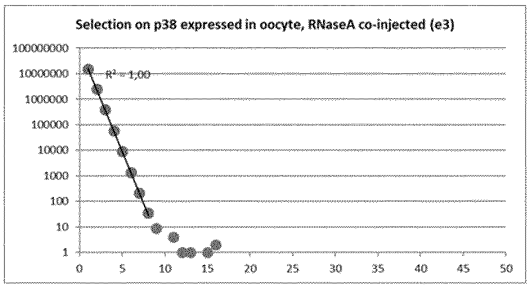
A



B



C



	e1	e2	e3
Mathematical threshold (MT)	9+	10+	9+
Hit above MT	8	23	18

D

Hit ID#	Cmp ID	#obs (e1)	#obs (e2)	#obs(e3)
1		13	-	-
2		11	-	-
3		11	8	7
4		10	17	15
5		10	14	16
6		10	5	-
7		9	-	-
8		9	5	5
9		-	22	12
10		5	21	11
11		-	14	11
12		-	12	-
13		8	12	13
14		7	12	16
15		-	12	11
16		-	11	8
17		-	11	5
18		-	11	-
19		-	11	-
20		-	10	-
21		-	10	-
22		-	10	-
23		-	10	-
24		-	10	-
25		-	10	-
26		-	10	8
27		-	10	-
28		-	10	-
29		-	10	-
30		-	5	11
31	vpc00249	-	5	9
32		-	-	9
33		-	7	9
34		-	-	9
35		-	-	9
36		-	-	9
37		5	-	9
38		6	-	9
39		-	-	9