**Supplementary File 2.** Marker-genes used for EASI-FISH experiment in the CEA

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| --- | --- | --- | --- |
|  | **Genes** | **HCR hairpin** | **Fluorophores** |
| Round 1 | *Oprk1* | B1 | AF-488 |
| *Scn4b* | B3 | AF-546 |
| *Vipr2* | B5 | JF-699 |
| Round 2 | *Npy1r* | B1 | AF-488 |
| *Sema3c* | B3 | AF-546 |
| *Drd1* | B5 | JF-699 |
| Round 3 | *Drd2* | B1 | AF-488 |
| *Htr1b* | B3 | AF-546 |
| *Htr2c* | B5 | JF-699 |
| Round 4\* | *Ebf1* | B1 | AF-488 |
| *Crym* | B3 | AF-546 |
| *-* | - | - |
| Round 5\* | *Cyp26b1* | B5 | AF-488 |
| *Crh* | B1 | AF-546 |
| *-* | - | - |
| Round 6 | *Dlk1* | B1 | AF-488 |
| *Vdr* | B3 | AF-546 |
| *Gpx3* | B5 | JF-699 |
| Round 7 | *Nefm* | B1 | AF-488 |
| *Vgf* | B3 | AF-546 |
| *Ppp1r1b* | B5 | JF-699 |
| Round 8 | *Tac1* | B1 | AF-488 |
| *Cartpt* | B2 | AF-546 |
| *Prkcd* | B5 | JF-699 |
| Round 9 | *Sst* | B3 | AF-488 |
| *Penk* | B1 | AF-546 |
| *Gal* | B5 | JF-699 |
| Round 10 | *Tac2* | B3 | AF-488 |
| *Pdyn* | B2 | AF-546 |
| *Nts* | B5 | JF-699 |
| Round 11 | *Oprk1* | B1 | AF-488 |
| *Scn4b* | B3 | AF-546 |
| *Vipr2* | B5 | JF-699 |
| Round 12\* | *Scn4b* | B3 | AF-488 |
| *Gad1* | B1 | AF-546 |
| - | - |  |

\*Two genes instead of three genes were probed in round 4, 5 and 12 due to 638 laser failure.