### Supplemental File S2 for Cell Line-, Protein-, and Sialoglycosite-Specific Control of Flux-Based Sialylation in Human Breast Cells: Implications for Cancer Progression

doi: 10.3389/fchem.2020.00013

| Gene symbol | Gene ID | Forward Primer (5' to 3') | Reverse Primer (5' to 3') | Accession # |
|-------------|---------|---------------------------|---------------------------|-------------|
| ST3GAL1     | 6482    | ATTAGAGCTTTCCACCTTGG      | CAAGATGGTGAGCAGAGGACCT    | NM_003033, NM_173344 |
| ST3GAL2     | 6483    | TGGTTTGACAGCCACTTGA       | CGGTTGGAAGATCCATGTTCT     | NM_006927   |
| ST3GAL3     | 6487    | ACACTGCACATACCTACC        | GAGAGATTCGGGTCTGACT       | NM_006278, NM_001254757, NM_001254758, NM_001254759 |
| ST3GAL4     | 6484    | CGTCTCGTGATGCTTTCAAGG     | GACACCGCTCTTATCCACT       | NM_003896, NM_001042437 |
| ST3GAL5     | 8869    | CAACGGGAACAGTCGCCCTGT     | CAACATGCCTGGCCTCCACT      | NM_001100, NM_00271144, NM_001271145, NM_001217146, NM_00271147, NM_00271148 |
| ST3GAL6     | 10402   | CCTAACACCCCAACAGAGGA      | CCAGCTAGTGAACTTGAGCA      | NM_003032, NM_173216, NM_173217 |
| ST6GAL1     | 6480    | TATCTGGCCAGAAGCAGCAT      | GACGACACAAACAGCACACT      | NM_003252, NM_001142381, NM_001142392 |
| ST6GAL2     | 84620   | CTTGACCGCTCTGCTGAGGAGG    | ATCTTTCCATGCGCTCTTGC      | NM_002414, NM_001298107 |
| ST6GALAC1   | 55668   | AACATGGCATGCTCAACACA      | GCCTCTTTCTCTGATCCCTCC     | NM_003896, NM_001042437 |
| ST6GALAC2   | 10610   | GATGTGCGACCAAGCAGCTTCCT  | GCAAGATGAGCAGGAGGAGT      | NM_006456 |
| ST6GALAC3   | 256435  | TGGTGGTGACGTTCTTGAATAG    | CCACCTTTGTAAGCTAGTTGTCC   | NM_152996, NM_001190011 |
| ST6GALAC4   | 27090   | CTTCTGAGCTGCTTACACTCT    | CTGCTGTGCTAGCGACG          | NM_014403, NM_175039, NM_175040 |
| ST6GALAC5   | 81849   | CAACGGAACAGACCACTTCTCC    | TGCTTCCACTGAGTTTCCAA      | NM_003985 |
| ST6GALAC6   | 30185   | GAGGGGCTCTGAGCTTGACA     | GGTGTTCTGGTCACATGAC       | NM_013443, NM_001286909, NM_001287000, NM_001287001, NM_001287002, NM_001287003 |
| ST6SA1      | 6489    | GCTTACCTGCGGCTGGAGTT     | AGAGAGACAGACAGACAGAGG     | NM_003034, NM_001304450 |
| ST6SA2      | 6126    | CACAGGGTCGATGCAAAGCAGTG  | CGTCTCTGGAAGCTGCTTACACT   | NM_000011 |
| ST6SA3      | 51046   | CGACACTGCTGACAAGGACAGCA  | GCAAGCAGTGGTACCTTCTC      | NM_018879 |
| ST6SA4      | 7903    | AGAGAGGAGAGCAGCAGTGGAG   | AGAGGAGAGACAGAGAGAGGAG    | NM_005668, NM_175052 |
| ST6SA5      | 29006   | GGGCTTCACCAACAGTGAAAG    | AGAGGAGAGAGTCCACTCGT      | NM_13305, NM_001307986, NM_001307987 |
| ST6SA6      | 338596  | CGCTGAAAGAGCTTAAAGCA     | AAGAGGAGAGACAGAGAGAGGAG   | NM_00004470 |
| GNE         | 10020   | CTGGAGAAGCTTGCTGCTTCT    | GATCACAAGGGGAGGAGGATAGGCA | NM_005476, NM_001128227, NM_001190383, NM_001190384, NM_001190386 |
| NANS        | 54187   | GGAGAGGAGCCCCATACACCTC   | TCCAGATGGTGTTGTGCTTCT      | NM_018946 |
| CA3S        | 65607   | CCTGCGGACGCTCCTTCTG      | CGCCGAGTGCTTTAAGTCTTCT    | NM_018396 |
| NAMP        | 145838  | CAGACAGAGCAGGAAGGGAGA    | CACTACAGAACAGGCTTCTCAC     | NM_156837 |
| SLC35A1     | 95959   | TGCTTCTTTGTGATGCTTCT     | CTGTGCTCTGGAGATGCTGCA     | NM_006416, NM_001168398 |
| SLC35A3     | 23443   | GGAACCTTCTCGCTTCTTCTC    | CACAGAAGGAGCAGAGAGGAGAG   | NM_122423, NM_001271684, NM_001271685 |
| RPL4        | 6124    | AGAGGAGAGGAGATGCTTCTT    | GGATGTTCTTGAGCAGAGATGCTG  | NM_000968 |