Table 1: The glycosyltransferase reaction library and ID number of an oligonucleotide corresponding glycosyltransferase gene on the CFG microarray.

| Reaction pattern | Entrez Gene ID (Common name) | EC number | KO number | CFG Array ID |
|---|---|---|---|---|
| Gal a1 4 Gal | 53947 (A4GALT) | 2.4.1.228 | K01988 | 219488_at |
| Gal b1 3 Gal | 126792 (B3GALT6) | 2.4.1.134 | K00734 | NM_080605_s_at, H93450_s_at |
| Gal b1 3 GalNAc | 8705 (B3GALT4) | 2.4.1.62 | K00715 | 210205_at |
| | 29071 (C1GALT1C1) | - | - | - |
| | 56913 (C1GALT1) | 2.4.1.122 | K00731 | 219439_at |
| Gal b1 3 GlcNAc | 8706 (B3GALT3) | 2.4.1.79 | K00719 | 211379_x_at, 211812_s_at |
| | 8707 (B3GALT2) | - | - | 210121_at |
| | 8708 (B3GALT1) | - | - | 220829_s_at, 222969_at |
| | 10317 (B3GALT5) | 2.4.1.- | K03877 | 206947_at |
| Gal b1 4 Glc | 9331 (B4GALT6) | 2.4.1.- | - | 206232_s_at, 206233_at |
| Gal b1 4 GlcNAc | 2683 (B4GALT1) | 2.4.1.-, 2.4.1.22, 2.4.1.38, 2.4.1.90 | K00704, K00708 | 201882_x_at, 201883_s_at |
| | 8702 (B4GALT4) | 2.4.1.-, 2.4.1.90 | - | 210540_s_at |
| | 8703 (B4GALT3) | 2.4.1.-, 2.4.1.38, 2.4.1.90 | k00708 | 210243_s_at |
| | 8704 (B4GALT2) | 2.4.1.-, 2.4.1.22, 2.4.1.38, 2.4.1.90 | k00704, k00708 | 209413_at |
| | 9331 (B4GALT6) | 2.4.1.- | - | 206232_s_at, 206233_at |
| | 9334 (B4GALT5) | 2.4.1.38 | k00708 | 221484_at, 221485_at |
| Gal b1 4 Xyl | 11285 (B4GALT7) | 2.4.1.133 | k00733 | 53076_at |
| Gal a1 3 Gal | 28 (ABO) | 2.4.1.37, 2.4.1.40 | K00707, K00709 | 214504_at |
| GalNAc a1 3 Gal | 28 (ABO) | 2.4.1.37, 2.4.1.40 | K00707, K00709 | 214504_at |
| GalNAc a1 3 GalNAc | 26301 (GBGT1) | 2.4.1.88 | K00722 | 231780_at |
| GalNAc b1 4 Gal | 2583 (GALGT) | 2.4.1.92 | K00725 | 206435_at |
| | 124872 (GALGT2) | - | - | - |
| GalNAc b1 4 GlcA | 22856 (CHSY1) | - | - | - |
| | 55454 (GALNACT-2) | - | - | - |
| | 55790 (ChGn) | - | - | - |
| | 337876 (CSS3) | - | - | - |
| GlcA b1 3 GalNAc | 22856 (CHSY1) | - | - | - |
| | 337876 (CSS3) | - | - | - |
| GlcA b1 3 Gal | 26229 (B3GAT3) | 2.4.1.135 | K00735 | 35179_at, 203452_at |
| | 27087 (B3GAT1) | 2.4.1.135 | K00735 | 219521_at |
| | 135152 (B3GAT2) | 2.4.1.135 | K00735 | - |
| GlcNAc a1 4 GlcA | 2131 (EXT1) | 2.4.1.224, 2.4.1.225 | K02366 | 201995_at |
| | 2132 (EXT2) | 2.4.1.224, 2.4.1.225 | K02367 | 202012_s_at, 202013_s_at |
| | 2134 (EXTL1) | 2.4.1.224 | K02368 | 206329_at |
| | 2135 (EXTL2) | 2.4.1.223 | K02369 | 209537_at |
| | 2137 (EXTL3) | 2.4.1.223, 2.4.1.224 | K02370 | 211051_s_at, AF083551_s_at |
| GlcA b1 4 GlcNAc | 2131 (EXT1) | 2.4.1.224, 2.4.1.225 | K02366 | 201995_at |
| | 2132 (EXT2) | 2.4.1.224, 2.4.1.225 | K02367 | 202012_s_at, 202013_s_at |

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|---|---|---|---|---|
| GlcNAc b1 4 GlcA | 3036 (HAS1) | 2.4.1.212 | - | - |
| | 3037 (HAS2) | 2.4.1.212 | - | - |
| | 3038 (HAS3) | 2.4.1.212 | - | - |
| GlcA b1 3 GlcNAc | 3036 (HAS1) | 2.4.1.212 | - | - |
| | 3037 (HAS2) | 2.4.1.212 | - | - |
| | 3038 (HAS3) | 2.4.1.212 | - | - |
| GlcNAc a1 4 Gal | 51146 (A4GNT) | - | - | 221131_at |
| GlcNAc b1 2 Man | 4245 (MGAT1) | 2.4.1.101 | K00726 | 201126_s_at |
| | 4247 (MGAT2) | 2.4.1.143 | K00736 | 203102_s_at |
| | 55624 (FLJ20277) | - | - | 217944_at |
| GlcNAc b1 3 Gal | 10331 (B3GNT3) | 2.4.1.- | - | 204856_at, AB049584_x_at |
| | 10678 (B3GNT1) | 2.4.1.149 | K00741 | 224154_at, AB049584_s_at |
| | 11041 (B3GNT6) | 2.4.1.149 | K00741 | 203188_at |
| | 79369 (B3GNT4) | - | - | 221240_s_at |
| | 84002 (B3GNT5) | 2.4.1.206 | K03766 | 225612_s_at |
| | 93010 (B3GNT7) | - | - | XM_091928_at |
| GlcNAc b1 3 GalNAc | 192134 (B3Gn-T6) | 2.4.1.147 | K00739 | AB073740_at |
| GlcNAc b1 3 LFuc | 3955 (LFNG) | - | K05948 | 215270_at |
| | 4242 (MFNG) | 2.4.1.222 | K05948 | 204152_s_at, 204153_s_at |
| GlcNAc b1 4 Man | 4248 (MGAT3) | 2.4.1.144 | K00737 | 209764_at |
| | 11282 (MGAT4B) | 2.4.1.145 | K00738 | 220189_s_at |
| | 11320 (MGAT4A) | 2.4.1.145 | K00738 | 219797_at |
| | 25834 (HGNT-IV-H) | - | - | - |
| GlcNAc b1 6 Gal | 2651 (GCNT2) | 2.4.1.150 | K00742 | 211020_at |
| GlcNAc b1 6 GalNAc | 2650 (GCNT1) | 2.4.1.102 | K00727 | 205505_at |
| | 9245 (GCNT3) | - | - | 219508_at |
| | 51301 (C2GNT3) | - | - | 220831_at |
| GlcNAc b1 6 Man | 4249 (MGAT5) | 2.4.1.155 | K00744 | 206720_at |
| | 90693 (LOC90693) | - | - | - |
| Glc a1 3 Glc | 79053 (ALG8) | 2.4.1.- | K03849 | - |
| Glc a1 3 Man | 29929 (ALG6) | 2.4.1.- | K03848 | - |
| | 55757 (UGCGL2) | 2.4.1.- | - | 218801_at |
| | 56886 (UGCGL1) | - | - | - |

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|---|---|---|---|---|
| LFuc a1 2 Gal | 2523 (FUT1) | 2.4.1.69 | K00718 | 206109_at |
| | 2524 (FUT2) | 2.4.1.69 | K00718 | 208505_s_at, D87942_at, D87942_s_at |
| LFuc a1 3 GlcNAc | 2525 (FUT3) | 2.4.1.65 | K00716 | 214088_s_at |
| | 2526 (FUT4) | 2.4.1.- | - | 209892_at, 209893_s_at |
| | 2527 (FUT5) | 2.4.1.65 | K00716 | 211225_at, U27330_at |
| | 2528 (FUT6) | 2.4.1.65 | K00716 | 210398_x_at, 210399_x_at, 211465_x_at, 211882_x_at, 211885_x_at |
| | 2529 (FUT7) | 2.4.1.- | - | 210506_at |
| | 10690 (FUT9) | - | - | 207696_at |
| LFuc a1 4 GlcNAc | 2525 (FUT3) | 2.4.1.65 | K00716 | 214088_s_at |
| LFuc a1 6 GlcNAc | 2530 (FUT8) | 2.4.1.68 | K00717 | 203988_s_at |
| Man a1 2 Man | 9488 (PIGB) | - | K05286 | 205452_at |
| | 80235 (SMP3) | - | - | - |
| Man a1 3 Man | 10195 (ALG3) | 2.4.1.130 | K03845 | 207396_s_at |
| | 85365 (ALG2) | 2.4.1.132 | K03843 | - |
| Man a1 4 GlcNAc | 93183 (PIGM) | - | K05284 | 223470_at |
| Man a1 6 Man | 79087 (ALG12) | 2.4.1.130 | K03847 | 218444_at |
| Man b1 4 GlcNAc | 56052 (ALG1) | 2.4.1.142 | K03842 | 223355_at |
| Neu5Ac a2 3 Gal | 6482 (ST3GAL1) | 2.4.99.4 | K00780 | 208322_s_at |
| | 6483 (ST3GAL2) | 2.4.99.4 | K03368 | 205346_at |
| | 6484 (ST3GAL4) | 2.4.99.4 | K03494 | 203759_at |
| | 6487 (ST3GAL3) | 2.4.99.6 | K00781 | 225905_s_at |
| | 8869 (ST3GAL5) | 2.4.99.9 | K03370 | 203217_s_at |
| | 10402 (ST3GAL6) | 2.4.99.10 | K03792 | 210942_s_at |
| Neu5Ac a2 6 Gal | 6480 (ST6GAL1) | 2.4.99.1 | K00778 | 201998_at, 214971_s_at |
| | 84620 (ST6GAL2) | - | - | - |
| Neu5Ac a2 6 GalNAc | 10610 (ST6GALNAC2) | 2.4.99.- | - | 204542_at |
| | 27090 (ST6GALNAC4) | 2.4.99.7 | K03374 | 220937_s_at |
| | 30815 (ST6GALNAC6) | 2.4.99.- | K03376 | 222571_at |
| | 55808 (ST6GALNAC1) | 2.4.99.3 | K03479 | 227725_at |
| | 81849 (ST6GALNAC5) | - | - | BC001201_at |
| | 256435 (ST6GALNAC3) | 2.4.99.- | K03373 | PROP_SIAT_at |
| Neu5Ac a2 8 Neu5Ac | 6489 (ST8SIA1) | 2.4.99.8 | K03371 | 210073_at |
| | 7903 (ST8SIA4) | 2.4.99.- | - | 206925_at |
| | 8128 (ST8SIA2) | 2.4.99.- | - | 221285_at |
| | 29906 (ST8SIA5) | 2.4.99.- | K03369 | 206258_at |
| | 51046 (ST8SIA3) | 2.4.99.- | - | 208064_s_at, 208065_at |