Table SI. List of detected peptides derived from GPC3.

| Peptide no. | Precursor MH+ (Da) | z  | Start | End | Sequence | Modifications |
|-------------|-------------------|----|-------|-----|----------|--------------|
| 1           | 2578.2224         | 2.85 | 522   | 545 | (R)FLAELAYDLVDAPGNSQQATPK(D) |
| 2           | 1540.8414         | 2.53 | 452   | 465 | (K)MKGPEPVSQIIDK(L) |
| 3           | 1588.7863         | 2.59 | 359   | 371 | (R)SAYYPEDLFIDKK(V) |
| 4           | 1734.8516         | 2.09 | 87    | 101 | (R)LNMEQLLQSASME(F) |
| 5           | 1828.8821         | 2.07 | 298   | 312 | (R)EYILSLEELVNGMYR(I) |
| 6           | 1281.684          | 1.99 | 454   | 465 | (K)GPEPVSQIIDK(L) |
| 7           | 1460.6682         | 1.99 | 359   | 370 | (R)SAYYPEDLFIDK(K) |
| 8           | 1142.5789         | 2.38 | 443   | 451 | (K)NQFNLHELK(M) |
| 9           | 684.3478          | 1.49 | 40    | 44  | (R)SFFOR(L) |
| 10          | 919.5157          | 1.93 | 214   | 221 | (K)LIMTQVSK(S) |
| 11          | 2207.2205         | 2.6  | 102   | 120 | (K)FIIQNAAFQEAIFVVR(H) |
| 12          | 655.4349          | 1.61 | 45    | 50  | (R)LOPGK(W) |
| 13          | 751A447           | 1.71 | 81    | 86  | (K)YOLTAR(L) |
| 14          | 5042.261          | 3.82 | 7     | 39  | (R)TACLVAMLLSLDFPQGAQQPPPDPARTCHQVR(S) |
| 15          | 733.4745          | 1.61 | 341   | 347 | (K)LITIIIGK(L) |
| 16          | 893.5129          | 2    | 468   | 474 | (K)HINQLLRT(T) |
| 17          | 1522.878          | 2.66 | 454   | 467 | (K)GPEPVSQIIDK(L)(H) |
| 18          | 808.4318          | 1    | 207   | 213 | (K)VFGNFPK(L) |
| 19          | 1493.7325         | 3    | 375   | 387 | (K)VAYVHEETLSSR(R) |
| 20          | 2022              | 2.98 | 546   | 563 | (K)DNISTFHLGNVHSPLK(L) |
| 21          | 703.4536          | 1.48 | 222   | 227 | (K)SLQVIR(I) |
| 22          | 694.3047          | 1    | 475   | 480 | (R)TMSMPK(G) |
| 23          | 510.2346          | 1    | 40    | 43  | (R)SFFQ(R) |
| 24          | 433.2233          | 1    | 42    | 44  | (F)FQR(L) |
| 25          | 450.2457          | 1    | 42    | 44  | (F)FQR(L) |
| 26          | 1588.769          | 2.08 | 87    | 100 | (R)LNMEQLLQSASMEL(K) |
| 27          | 562.3199          | 1    | 217   | 221 | (M)TOVSK(S) |
| 28          | 371.2313          | 1    | 449   | 451 | (H)ELK(M) |
| 29          | 1538.8188         | 2.63 | 452   | 465 | (K)MKGPEPVSQIIDK(L) |
| 30          | 689.3231          | 1    | 509   | 515 | (G)SDGMIK(V) |
| 31          | 808.4158          | 2    | 522   | 528 | (R)FLAELAY(D) |
| 32          | 382_1767          | 1    | 40    | 42  | (R)SFF(Q) |

Modifications: Carbamidomethyl C (3), Oxidation M (8), Carbamidomethyl C (29), O-Glycosylation (1)