

FIGURE 1

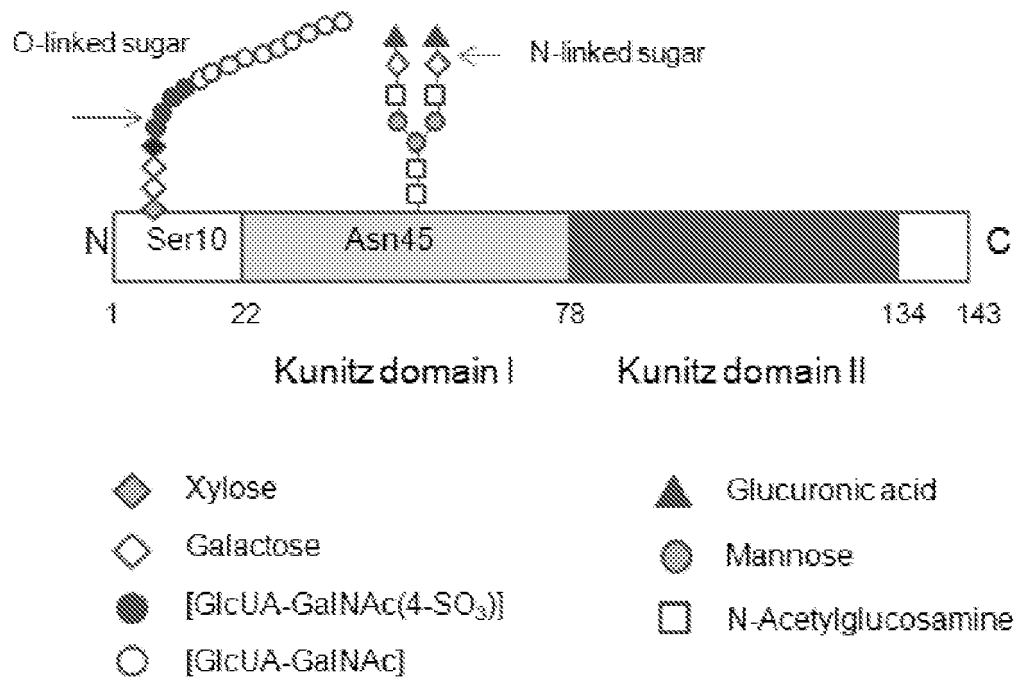
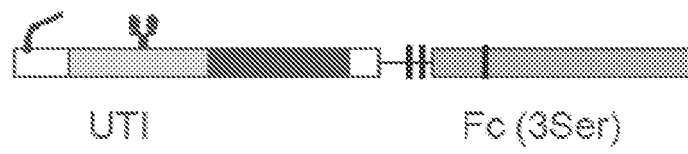


FIGURE 2

# UTI - Fc (3Ser)



|         | UTI |   |   |   |   |   |   |   |   |   | linker |   |   |   |   |   |   |   |   |  |
|---------|-----|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|---|---|---|--|
| linker2 | P   | G | D | G | D | E | E | L | L | R | E      | P | K | S |   | D | K | T | H |  |
| linker1 | P   | G | D | G | D | E | E | L | L | G | S      | G | G | G | G | D | K | T | H |  |

FIGURE 3

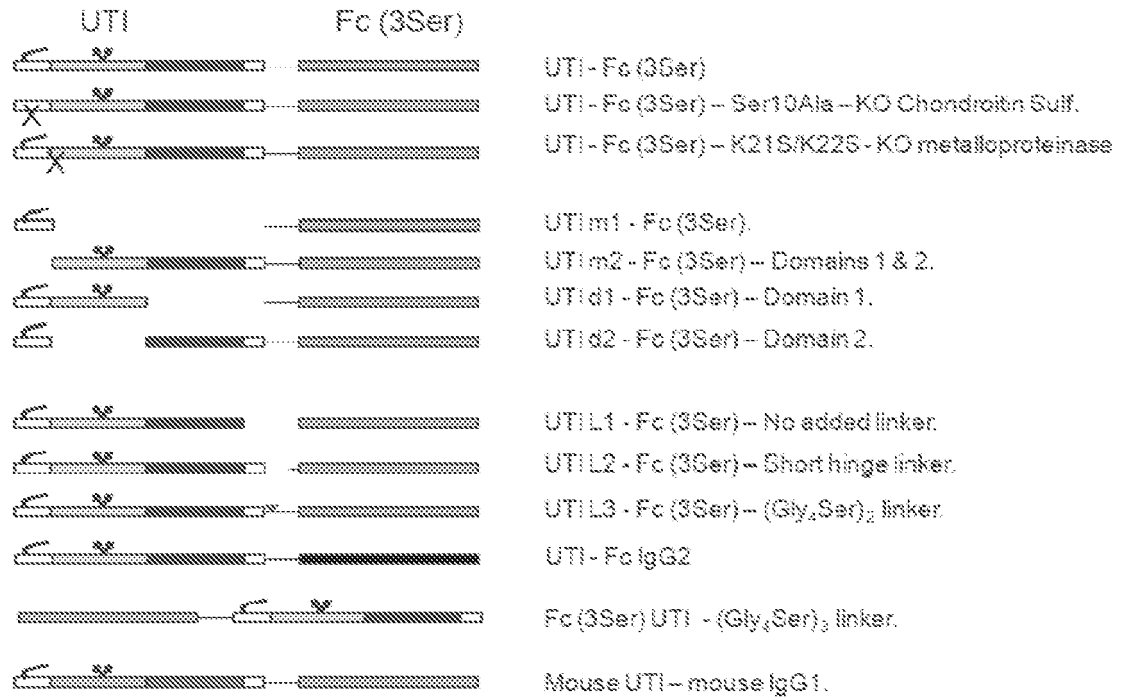
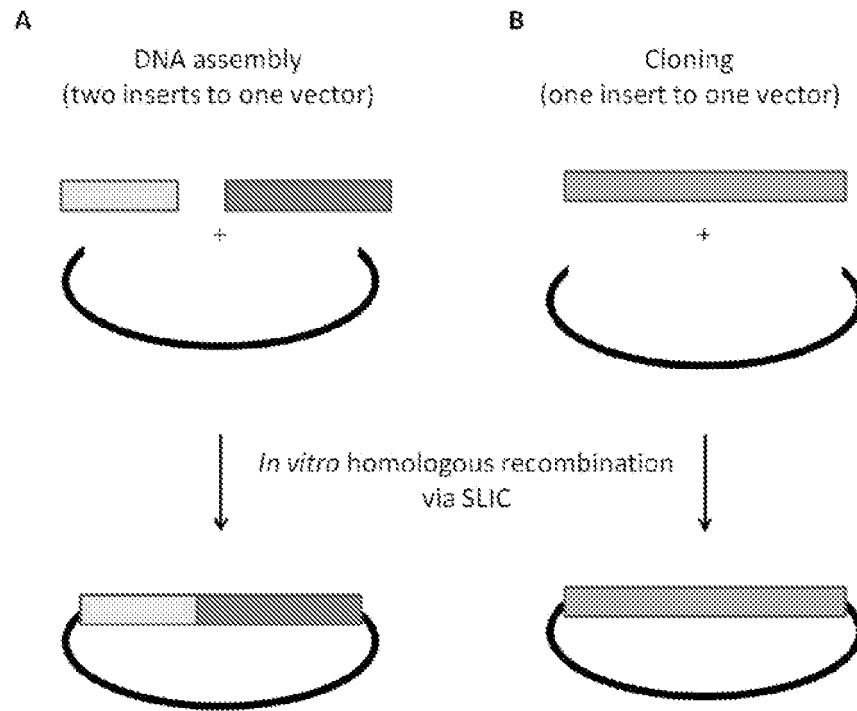


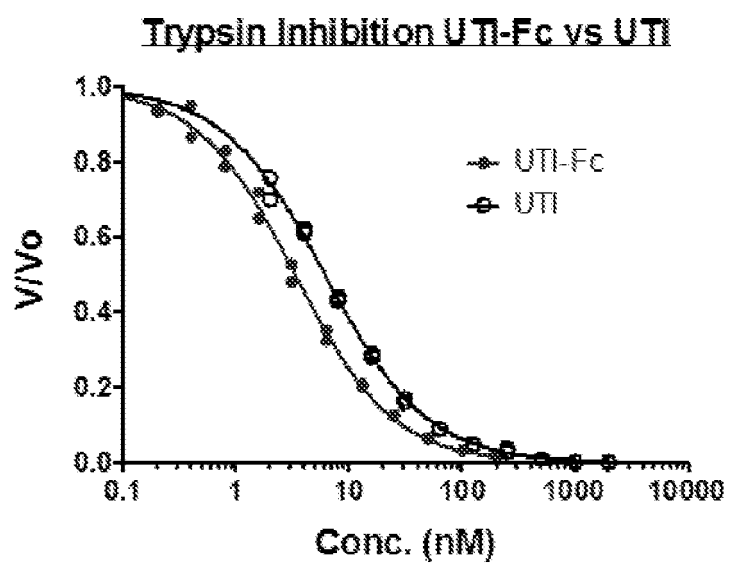
FIGURE 4

## DNA assembly and cloning via SLIC



U MZ and Elledge SJ (2007), Harnessing homologous recombination *in vitro* to generate recombinant DNA via SLIC. *Nature Methods* 4(3):251-256.

FIGURE 5



$$Y = \text{Top} / (1 + ((X/\text{IC50})^{\text{Hill}}))$$

|      | UTI-Fc  | UTI     |
|------|---------|---------|
| Top  | = 1.000 | = 1.000 |
| IC50 | 3.327   | 6.088   |
| Hill | 1.009   | 0.9666  |

FIGURE 6

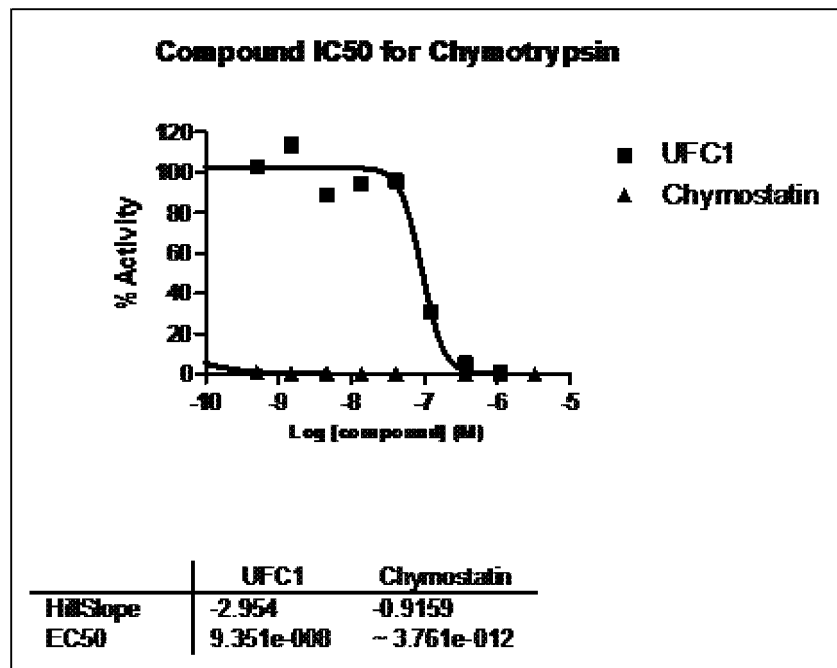


FIGURE 7

Compound IC50 (M)

| Target           | UTI-Fc (UFC1) | Control I IC50 (M) | Control compound       |
|------------------|---------------|--------------------|------------------------|
| Caspase 1        | 1.33E-06      | 7.30E-08           | IETD-CHO               |
| Cathepsin C      | 5.48E-06      | 2.29E-07           | E 64                   |
| Cathepsin G      | > 1.0E-05     | 6.53E-07           | Chymostatin            |
| Chymotrypsin     | 9.35E-08      | < 5.08E-10         | Chymostatin            |
| Papain           | 3.29E-06      | < 5.08E-10         | E64                    |
| Plasmin          | 6.63E-08      | 6.14E-08           | Gabexate Mesylate      |
| Proteinase K     |               | 8.71E-08           | Proteinase K inhibitor |
| TACE/ADAM17      | > 1.0E-05     | 1.69E-08           | CM0001                 |
| Thrombin         |               | 2.60E-06           | Gabexate Mesylate      |
| Tryptase beta II |               | 1.61E-09           | Gabexate Mesylate      |

FIGURE 8

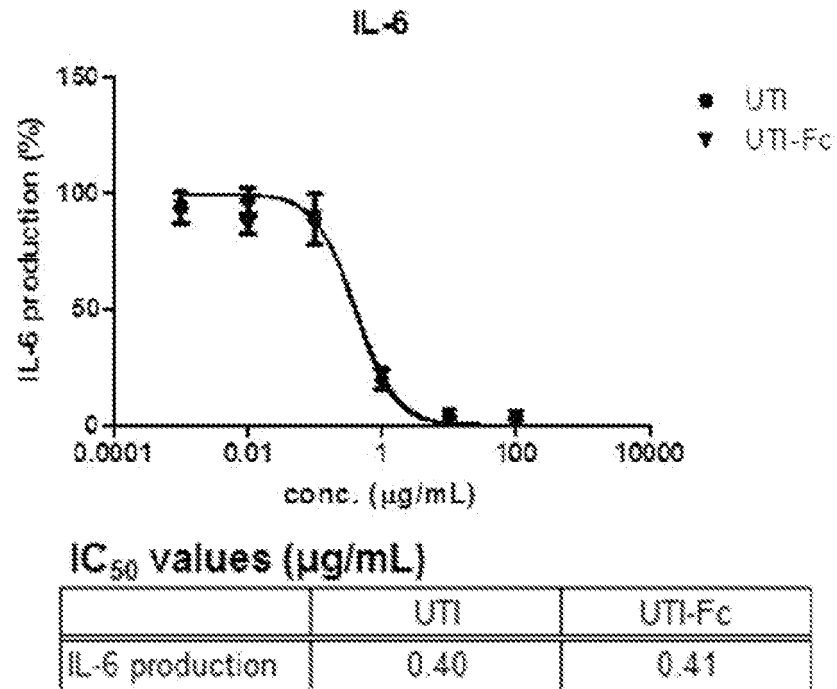
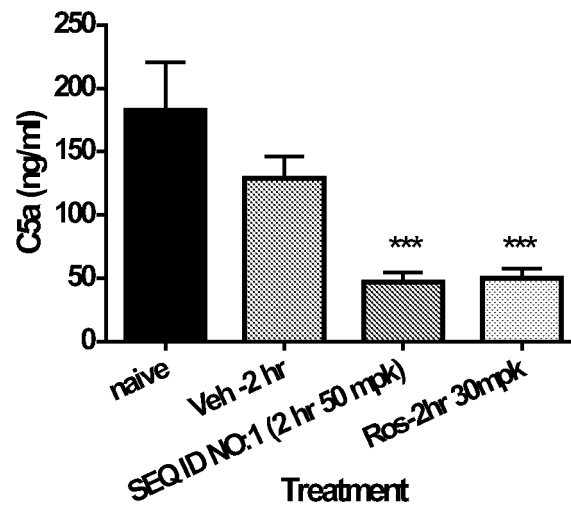


FIGURE 9

| Protein Name                     | PPR # | Titer(ug/mL) | Concentration (mg/mL) | Volume(mL) | Yield (mgs) | Load volume(mLs) | % Recovery |
|----------------------------------|-------|--------------|-----------------------|------------|-------------|------------------|------------|
| UTI-Fc(3Ser)                     | 711   | 45           | 2.8                   | 2          | 5.50        | 200              | 60.7       |
| UTI-Fc(3Ser)-Ser10Ala            | 712   | 52           | 3.4                   | 2          | 6.75        | 200              | 65.5       |
| UTI-Fc(3Ser)-K21S/K22S           | 713   | 40           | 2.3                   | 2          | 4.67        | 200              | 58.1       |
| UTIm1-Fc(3Ser)                   | 714   | 51           | 2.9                   | 2          | 5.71        | 200              | 56.5       |
| UTIm2-Fc(3Ser)                   | 715   | 2            |                       |            |             |                  |            |
| UTId1-Fc(3Ser)                   | 716   | 41           | 2.5                   | 2          | 4.94        | 200              | 60.7       |
| UTId2-Fc(3Ser)                   | 717   | 52           | 2.7                   | 2          | 5.42        | 200              | 52.3       |
| UTIL1-Fc(3Ser)                   | 718   | 33           | 2.1                   | 2          | 4.18        | 200              | 62.7       |
| UTIL2-Fc(3Ser)                   | 719   | 40           | 2.4                   | 2          | 4.80        | 200              | 60.3       |
| UTIL3-Fc(3Ser) (Gly4Ser)2 linker | 720   | 38           | 2.5                   | 2          | 4.93        | 200              | 64.7       |
| UTI-Fc(IgG2)                     | 721   | 39           | 2.5                   | 2          | 5.06        | 200              | 64.3       |
| Fc(3Ser)-UTI (Gly4Ser)3 linker   | 722   | 31           | 1.9                   | 2          | 3.85        | 200              | 62.8       |
| mouse UTI - mouse IgG1           | 723   | 4            |                       |            |             |                  |            |

Figure 10

**Effect of SEQ ID NO:1 on LPS Induced C5a in C3H Mice  
(mean + sem, n = 8)**



**Effect of SEQ ID NO:1 on LPS Induced C5a  
in C3H Mice (mean + sem, n = 8)**

