SEQUENCE LISTING

<110> KING'S COLLEGE LONDON
GAMMADELTA THERAPEUTICS LIMITED

<120> BTNL3/8 TARGETING CONSTRUCTS FOR DELIVERY OF PAYLOADS TO THE GASTROINTESTINAL SYSTEM

<130> GDT-P2577PCT

<140>
<141>

<150> 62/680,932
<151> 2018-06-05

<160> 18

<170> PatentIn version 3.5

<210> 1
<211> 4
<212> PRT
<213> Homo sapiens

<400> 1
Asp Thr Tyr Gly
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<210> 2
<211> 4
<212> PRT
<213> Mus sp.

<400> 2
His Val Tyr Glu
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<210> 3
<211> 16
<212> PRT
<213> Homo sapiens

<400> 3
Lys Tyr Asp Thr Tyr Gly Ser Thr Arg Lys Asn Leu Arg Met Ile Leu
1 5 10 15

<210> 4
<211> 16
<212> PRT
<213> Mus sp.

<400> 4
Lys Tyr His Val Tyr Glu Gly Pro Asp Lys Arg Tyr Lys Phe Val Leu
1   5   10   15

<210> 5
<211> 16
<212> PRT
<213> Homo sapiens

<400> 5
Lys Tyr Tyr Thr Tyr Ala Ser Thr Arg Asn Asn Leu Arg Leu Ile Leu
1   5   10   15

<210> 6
<211> 100
<212> PRT
<213> Homo sapiens

<400> 6
Ser Ser Asn Leu Glu Gly Arg Thr Lys Ser Val Ile Arg Gln Thr Gly
1   5   10   15

Ser Ser Ala Glu Ile Thr Cys Asp Leu Ala Glu Gly Ser Thr Gly Tyr
            20   25   30

Ile His Trp Tyr Leu His Gln Glu Gly Lys Ala Pro Gln Arg Leu Leu
        35   40   45

Tyr Tyr Asp Ser Tyr Thr Ser Ser Val Val Leu Glu Ser Gly Ile Ser
    50   55   60

Pro Gly Lys Tyr Asp Thr Tyr Gly Ser Thr Arg Lys Asn Leu Arg Met
65   70   75   80

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
                85   90   95

Thr Trp Asp Gly
            100

<210> 7
<211> 100
<212> PRT
<213> Homo sapiens

<400> 7

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Ser Ser Asn Leu Glu Gly Arg Thr Lys Ser Val Ile Arg Gln Thr Gly
1               5                   10                  15


Ser Ser Ala Glu Ile Thr Cys Asp Leu Ala Glu Gly Ser Asn Gly Tyr
            20                  25                  30


Ile His Trp Tyr Leu His Gln Glu Gly Lys Ala Pro Gln Arg Leu Gln
        35                  40                  45


Tyr Tyr Asp Ser Tyr Asn Ser Lys Val Val Leu Glu Ser Gly Val Ser
    50                  55                  60


Pro Gly Lys Tyr Tyr Thr Tyr Ala Ser Thr Arg Asn Asn Leu Arg Leu
65                  70                  75                  80


Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
                85                  90                  95


Thr Trp Asp Gly
            100
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<210> 8
<211> 98
<212> PRT
<213> Mus sp.

<400> 8

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Ser Ser Asn Leu Glu Glu Arg Ile Met Ser Ile Thr Lys Leu Glu Gly
1               5                   10                  15


Ser Ser Ala Ile Met Thr Cys Asp Thr His Arg Thr Gly Thr Tyr Ile
            20                  25                  30


His Trp Tyr Arg Phe Gln Lys Gly Arg Ala Pro Glu His Leu Leu Tyr
        35                  40                  45


Tyr Asn Phe Val Ser Ser Thr Thr Val Val Asp Ser Arg Phe Asn Ser
    50                  55                  60


Glu Lys Tyr His Val Tyr Glu Gly Pro Asp Lys Arg Tyr Lys Phe Val
65                  70                  75                  80


Leu Arg Asn Val Glu Glu Ser Asp Ser Ala Leu Tyr Tyr Cys Ala Ser
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85 90 95

Trp Ala

<210> 9
<211> 254
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 9
Ala Gln Lys Val Thr Gln Ala Gln Ser Ser Val Ser Met Pro Val Arg
1 5 10 15

Lys Ala Val Thr Leu Asn Cys Leu Tyr Glu Thr Ser Trp Trp Ser Tyr
20 25 30

Tyr Ile Phe Trp Tyr Lys Gln Leu Pro Ser Lys Glu Met Ile Phe Leu
35 40 45

Ile Arg Gln Gly Ser Asp Glu Gln Asn Ala Lys Ser Gly Arg Tyr Ser
50 55 60

Val Asn Phe Lys Lys Ala Ala Lys Ser Val Ala Leu Thr Ile Ser Ala
65 70 75 80

Leu Gln Leu Glu Asp Ser Ala Lys Tyr Phe Cys Ala Leu Gly Glu Ser
85 90 95

Leu Thr Arg Ala Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val Thr
100 105 110

Val Glu Pro Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu Arg
115 120 125

Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp
130 135 140

Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr

145 150 155 160

Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser
165 170 175

Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe
180 185 190

Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser
195 200 205

Ser Cys Thr Thr Ala Pro Ser Ala Gln Leu Lys Lys Lys Leu Gln Ala
210 215 220

Leu Lys Lys Lys Asn Ala Gln Leu Lys Trp Lys Leu Gln Ala Leu Lys
225 230 235 240

Lys Lys Leu Ala Gln Gly Ser Gly His His His His His His
245 250

<210> 10
<211> 270
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 10
Ser Ser Asn Leu Glu Gly Arg Thr Lys Ser Val Ile Arg Gln Thr Gly
1 5 10 15

Ser Ser Ala Glu Ile Thr Cys Asp Leu Ala Glu Gly Ser Thr Gly Tyr
20 25 30

Ile His Trp Tyr Leu His Gln Glu Gly Lys Ala Pro Gln Arg Leu Leu
35 40 45

Tyr Tyr Asp Ser Tyr Thr Ser Ser Val Val Leu Glu Ser Gly Ile Ser
50 55 60

Pro Gly Lys Tyr Asp Thr Tyr Gly Ser Thr Arg Lys Asn Leu Arg Met

65 70 75 80

Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
85 90 95

Thr Trp Asp Glu Lys Tyr Tyr Lys Lys Leu Phe Gly Ser Gly Thr Thr
100 105 110

Leu Val Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala
115 120 125

Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
130 135 140

Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
145 150 155 160

Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro
165 170 175

Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu
180 185 190

Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn
195 200 205

His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
210 215 220

Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
225 230 235 240

Ala Trp Gly Arg Ala Asp Cys Thr Thr Ala Pro Ser Ala Gln Leu Glu
245 250 255

Lys Glu Leu Gln Ala Leu Glu Lys Glu Asn Ala Gln Leu Glu
260 265 270

<210> 11
<211> 255
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 11
Ala Ile Glu Leu Val Pro Glu His Gln Thr Val Pro Val Ser Ile Gly
1 5 10 15

Val Pro Ala Thr Leu Arg Cys Ser Met Lys Gly Glu Ala Ile Gly Asn
20 25 30

Tyr Tyr Ile Asn Trp Tyr Arg Lys Thr Gln Gly Asn Thr Ile Thr Phe
35 40 45

Ile Tyr Arg Glu Lys Asp Ile Tyr Gly Pro Gly Phe Lys Asp Asn Phe
50 55 60

Gln Gly Asp Ile Asp Ile Ala Lys Asn Leu Ala Val Leu Lys Ile Leu
65 70 75 80

Ala Pro Ser Glu Arg Asp Glu Gly Ser Tyr Tyr Cys Ala Leu Gly Glu
85 90 95

Ser Leu Thr Arg Ala Asp Lys Leu Ile Phe Gly Lys Gly Thr Arg Val
100 105 110

Thr Val Glu Pro Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu
115 120 125

Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe
130 135 140

Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile
145 150 155 160

Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn
165 170 175

Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala
180 185 190

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Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu
        195                 200                 205


Ser Ser Cys Thr Thr Ala Pro Ser Ala Gln Leu Lys Lys Lys Leu Gln
    210                 215                 220


Ala Leu Lys Lys Lys Asn Ala Gln Leu Lys Trp Lys Leu Gln Ala Leu
225                 230                 235                 240


Lys Lys Lys Leu Ala Gln Gly Ser Gly His His His His His His
                245                 250                 255


<210> 12
<211> 282
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 12
Ser Ser Asn Leu Glu Gly Arg Thr Lys Ser Val Ile Arg Gln Thr Gly
1               5                   10                  15


Ser Ser Ala Glu Ile Thr Cys Asp Leu Ala Glu Gly Ser Asn Gly Tyr
            20                  25                  30


Ile His Trp Tyr Leu His Gln Glu Gly Lys Ala Pro Gln Arg Leu Gln
        35                  40                  45


Tyr Tyr Asp Ser Tyr Asn Ser Lys Val Val Leu Glu Ser Gly Val Ser
    50                  55                  60


Pro Gly Lys Tyr Tyr Thr Tyr Ala Ser Thr Arg Asn Asn Leu Arg Leu
65                  70                  75                  80


Ile Leu Arg Asn Leu Ile Glu Asn Asp Ser Gly Val Tyr Tyr Cys Ala
                85                  90                  95


Thr Trp Asp Glu Lys Tyr Tyr Lys Lys Leu Phe Gly Ser Gly Thr Thr
            100                 105                 110
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Leu Val Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala
        115                 120                 125

Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
    130                 135                 140

Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
145                 150                 155                 160

Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro
                165                 170                 175

Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu
            180                 185                 190

Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn
        195                 200                 205

His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
    210                 215                 220

Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
225                 230                 235                 240

Ala Trp Gly Arg Ala Asp Cys Thr Thr Ala Pro Ser Ala Gln Leu Glu
                245                 250                 255

Lys Glu Leu Gln Ala Leu Glu Lys Glu Asn Ala Gln Leu Glu Trp Glu
            260                 265                 270

Leu Gln Ala Leu Glu Lys Glu Leu Ala Gln
        275                 280
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<210> 13
<211> 282
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 13

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Ser Ser Asn Leu Glu Gly Arg Thr Lys Ser Val Thr Arg Pro Thr Gly
1               5                  10                  15

Ser Ser Ala Val Ile Thr Cys Asp Leu Pro Val Glu Asn Ala Val Tyr
            20                  25                  30

Thr His Trp Tyr Leu His Gln Glu Gly Lys Ala Pro Gln Arg Leu Leu
        35                  40                  45

Tyr Tyr Asp Ser Tyr Asn Ser Arg Val Val Leu Glu Ser Gly Ile Ser
    50                  55                  60

Arg Glu Lys Tyr His Thr Tyr Ala Ser Thr Gly Lys Ser Leu Lys Phe
65                  70                  75                  80

Ile Leu Glu Asn Leu Ile Glu Arg Asp Ser Gly Val Tyr Tyr Cys Ala
                85                  90                  95

Thr Trp Asp Glu Lys Tyr Tyr Lys Lys Leu Phe Gly Ser Gly Thr Thr
            100                 105                 110

Leu Val Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala
        115                 120                 125

Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr
    130                 135                 140

Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser
145                 150                 155                 160

Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr Asp Pro
                165                 170                 175

Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu
            180                 185                 190

Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn
        195                 200                 205

His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu
    210                 215                 220
```

Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu
225 230 235 240

Ala Trp Gly Arg Ala Asp Cys Thr Thr Ala Pro Ser Ala Gln Leu Glu
245 250 255

Lys Glu Leu Gln Ala Leu Glu Lys Glu Asn Ala Gln Leu Glu Trp Glu
260 265 270

Leu Gln Ala Leu Glu Lys Glu Leu Ala Gln
275 280

<210> 14
<211> 18
<212> PRT
<213> Homo sapiens

<400> 14
Met Ala Trp Ala Leu Ala Val Leu Leu Ala Phe Leu Ser Pro Ala Ser
1 5 10 15

Gln Lys

<210> 15
<211> 20
<212> PRT
<213> Homo sapiens

<400> 15
Gly Gln Glu Leu Gly Lys Lys Ile Lys Val Phe Gly Pro Gly Thr Lys
1 5 10 15

Leu Ile Ile Thr
20

<210> 16
<211> 20
<212> PRT
<213> Homo sapiens

<400> 16
Gly Gln Glu Leu Gly Lys Lys Ile Lys Val Phe Gly Pro Gly Thr Lys
1 5 10 15

Leu Ile Ile Thr
            20

<210> 17
<211> 19
<212> PRT
<213> Homo sapiens

<400> 17
Ser Ser Asp Trp Ile Lys Thr Phe Ala Lys Gly Thr Arg Leu Ile Val
1   5   10   15

Thr Ser Pro

<210> 18
<211> 16
<212> PRT
<213> Homo sapiens

<400> 18
Asn Tyr Tyr Lys Lys Leu Phe Gly Ser Gly Thr Thr Leu Val Val Thr
1   5   10   15