SEQUENCE LISTING

<110> Genmab A/S

<120> HUMAN ANTIBODIES AGAINST CD74

<130> P68

<160> 26

<170> PatentIn version 3.5

<210> 1
<211> 296
<212> PRT
<213> Artificial Sequence

<220>
<223> Partial sequence

<400> 1

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Met His Arg Arg Arg Ser Arg Ser Cys Arg Glu Asp Gln Lys Pro Val
1               5                  10                  15

Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met
            20                  25                  30

Leu Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala
        35                  40                  45

Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln
    50                  55                  60

Ala Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys
65                  70                  75                  80

Leu Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys
                85                  90                  95

Leu Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro
            100                 105                 110

Leu Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met
        115                 120                 125

Gln Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His
    130                 135                 140

Leu Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly
145                 150                 155                 160

Ser Phe Pro Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr Ile
                165                 170                 175

Asp Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu
            180                 185                 190
```

```
Met Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys
        195                 200                 205

Val Leu Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val His
    210                 215                 220

Pro Gly Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu Pro
225                 230                 235                 240

Leu Gln Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro Asn
                245                 250                 255

Gly Thr Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys Ser
            260                 265                 270

Glu Ser Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys
        275                 280                 285

Gln Asp Leu Gly Pro Val Pro Met
    290                 295
```

<210> 2
<211> 232
<212> PRT
<213> Artificial sequence

<220>
<223> Partial sequence

<400> 2

```
Met His Arg Arg Arg Ser Arg Ser Cys Arg Glu Asp Gln Lys Pro Val
1               5                   10                  15

Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met
            20                  25                  30

Leu Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala
        35                  40                  45

Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln
    50                  55                  60

Ala Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys
65                  70                  75                  80

Leu Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys
                85                  90                  95

Leu Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro
            100                 105                 110
```

eolf-seql

Leu Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met
115 120 125

Gln Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His
130 135 140

Leu Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly
145 150 155 160

Ser Phe Pro Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr Ile
165 170 175

Asp Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu
180 185 190

Met Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys
195 200 205

Glu Ser Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys
210 215 220

Gln Asp Leu Gly Pro Val Pro Met
225 230

<210> 3
<211> 261
<212> PRT
<213> Artificial sequence

<220>
<223> Partial sequence

<400> 3

Met Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala Leu Tyr Thr
1 5 10 15

Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln Ala Thr Thr
20 25 30

Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr Val
35 40 45

Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro Lys
50 55 60

Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu Met
65 70 75 80

Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln Asn Ala
85 90 95

Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu Gln
100 105 110

```
Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe Pro
        115                 120                 125

Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp Lys
    130                 135                 140

Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met Ser Arg
145                 150                 155                 160

His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Val Leu Thr
                165                 170                 175

Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val His Pro Gly Ser
            180                 185                 190

Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu Pro Leu Gln Cys
        195                 200                 205

Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro Asn Gly Thr Glu
    210                 215                 220

Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys Ser Glu Ser Leu
225                 230                 235                 240

Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp Leu
                245                 250                 255

Gly Pro Val Pro Met
            260
```

<210> 4
<211> 197
<212> PRT
<213> Artificial sequence

<220>
<223> Partial sequence

<400> 4

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Met Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala Leu Tyr Thr
1               5                   10                  15

Gly Phe Ser Ile Leu Val Thr Leu Leu Leu Ala Gly Gln Ala Thr Thr
            20                  25                  30

Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr Val
        35                  40                  45

Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro Lys
    50                  55                  60
```

eolf-seql

Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu Met
65 70 75 80

Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln Asn Ala
85 90 95

Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu Gln
100 105 110

Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe Pro
115 120 125

Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp Lys
130 135 140

Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met Ser Arg
145 150 155 160

His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Glu Ser Leu
165 170 175

Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp Leu
180 185 190

Gly Pro Val Pro Met
195

<210> 5
<211> 230
<212> PRT
<213> Artificial sequence

<220>
<223> Partial sequence with His-tag

<400> 5

His His His His His His Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr
1 5 10 15

Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro
20 25 30

Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu
35 40 45

Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln Asn
50 55 60

Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu
65 70 75 80

Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe
85 90 95

```
Pro Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp
            100                 105                 110

Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met Ser
        115                 120                 125

Arg His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Val Leu
    130                 135                 140

Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val His Pro Gly
145                 150                 155                 160

Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu Pro Leu Gln
                165                 170                 175

Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro Asn Gly Thr
            180                 185                 190

Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys Ser Glu Ser
        195                 200                 205

Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp
    210                 215                 220

Leu Gly Pro Val Pro Met
225                 230
```

<210> 6
<211> 166
<212> PRT
<213> Artificial sequence

<220>
<223> Partial sequence with His-tag

<400> 6

```
His His His His His His Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr
1               5                   10                  15

Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro
            20                  25                  30

Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu
        35                  40                  45

Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln Asn
    50                  55                  60

Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu
65                  70                  75                  80
```

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Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe
85 90 95

Pro Glu Asn Leu Arg His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp
100 105 110

Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met Ser
115 120 125

Arg His Ser Leu Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Glu Ser
130 135 140

Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp
145 150 155 160

Leu Gly Pro Val Pro Met
165

<210> 7
<211> 124
<212> PRT
<213> Homo sapiens

<400> 7

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

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

Ala Ser Gly Arg Tyr Tyr Gly Ser Gly Ser Tyr Ser Ser Tyr Phe Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 8
<211> 8
<212> PRT
<213> Homo sapiens

<400> 8

Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 9
<211> 8
<212> PRT
<213> Homo sapiens

<400> 9

Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 10
<211> 17
<212> PRT
<213> Homo sapiens

<400> 10

Ala Ser Gly Arg Tyr Tyr Gly Ser Gly Ser Tyr Ser Ser Tyr Phe Asp
1 5 10 15

Tyr

<210> 11
<211> 124
<212> PRT
<213> Homo sapiens

<400> 11

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Ile Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Val Phe Tyr Cys
85 90 95

Ala Arg Gly Arg Glu Ile Thr Ser Gln Asn Ile Val Ile Leu Leu Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Thr Ser

115 120

<210> 12
<211> 8
<212> PRT
<213> Homo sapiens

<400> 12

Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 13
<211> 8
<212> PRT
<213> Homo sapiens

<400> 13

Ile Ser Tyr Asp Gly Ser Ile Lys
1 5

<210> 14
<211> 17
<212> PRT
<213> Homo sapiens

<400> 14

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

Tyr

<210> 15
<211> 124
<212> PRT
<213> Homo sapiens

<400> 15

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

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85 90 95

Ala Arg Gly Arg Glu Ile Thr Ser Gln Asn Ile Val Ile Leu Leu Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 16
<211> 8
<212> PRT
<213> Homo sapiens

<400> 16

Gly Phe Thr Phe Ser Ser Tyr Ala
1 5

<210> 17
<211> 8
<212> PRT
<213> Homo sapiens

<400> 17

Ile Ser Tyr Asp Gly Ser Asn Lys
1 5

<210> 18
<211> 17
<212> PRT
<213> Homo sapiens

<400> 18

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

Tyr

<210> 19
<211> 123
<212> PRT
<213> Homo sapiens

<400> 19

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Asp Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

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50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

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

Ala Arg Gly Gly Thr Leu Val Arg Gly Ala Met Tyr Gly Thr Asp Val
100 105 110

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 20
<211> 8
<212> PRT
<213> Homo sapiens

<400> 20

Gly Phe Thr Phe Ser Ser Tyr Gly
1 5

<210> 21
<211> 8
<212> PRT
<213> Homo sapiens

<400> 21

Ile Trp Tyr Asp Gly Ser Asn Lys
1 5

<210> 22
<211> 16
<212> PRT
<213> Homo sapiens

<400> 22

Ala Arg Gly Gly Thr Leu Val Arg Gly Ala Met Tyr Gly Thr Asp Val
1 5 10 15

<210> 23
<211> 107
<212> PRT
<213> Homo sapiens

<400> 23

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
20 25 30

Leu Ala Trp Phe Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile

eolf-seql

35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 24
<211> 6
<212> PRT
<213> Homo sapiens

<400> 24

Gln Gly Ile Ser Ser Trp
1 5

<210> 25
<211> 9
<212> PRT
<213> Homo sapiens

<400> 25

Gln Gln Tyr Asn Ser Tyr Pro Leu Thr
1 5

<210> 26
<211> 107
<212> PRT
<213> Homo sapiens

<400> 26

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
20 25 30

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

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

```
                                        eolf-seql
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Leu
                85                  90                  95


Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
            100                 105
```