SEQUENCE LISTING

<110> TERACLON IDF, SL
Paniagua-Solís, Jorge F.
Elosua, Carolina
Licea, Alexei
Mata-González, María -Teresa
Olguín, Araceli

<120> ANTICUERPOS VNAR RECOMBINANTES ANTI-VEGF

<130> TERACLON-SILANES

<160> 17

<170> PatentIn version 3.5

<210> 1
<211> 368
<212> DNA
<213> Heterodontus francisci

<220>
<221> V13
<222> (1)..(368)

<220>
<221> SEQ ID NO: 1
<222> (1)..(368)

<400> 1
gcaagcctgg accaaacacc aagaacggca acgagagaga caggcgaatc cctgagcatt 60

aactgcgtcc tcactgatac tagccatatt ttgttcggca caaaatggct ctggaataat 120

ccgggttcaa cagattggga aagcataacg attggcggac gatatgctga atcagtcaac 180

aaccaagcaa agtcattttc tctgcaaatc aaggacctga cagttgaaga cagtggcacc 240

tattactgca agcgcaaacc ataggaagac gcaaaaatct acttccacgc ccattggtga 300

acggtatagc tgcgatgggg tatagctcca gtgactacga cggagctggc accgtgctga 360

ctgtgaac 368

<210> 2

<211> 123
<212> PRT
<213> Heterodontus francisci

<220>
<221> V13
<222> (1)..(123)

<220>
<221> SEQ ID NO : 2
<222> (1)..(123)

<400> 2

```
Ala Ser Leu Asp Gln Thr Pro Arg Thr Ala Thr Arg Glu Thr Gly Glu
1               5                  10                  15


Ser Leu Ser Ile Asn Cys Val Leu Thr Asp Thr Ser His Ile Leu Phe
            20                  25                  30


Gly Thr Lys Trp Leu Trp Asn Asn Pro Gly Ser Thr Asp Trp Glu Ser
        35                  40                  45


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


Ser Phe Ser Leu Gln Ile Lys Asp Leu Thr Val Glu Asp Ser Gly Thr
65                  70                  75                  80


Tyr Tyr Cys Lys Ala Gln Thr Ile Gly Arg Arg Lys Asn Leu Leu Pro
                85                  90                  95


Arg Pro Leu Val Asn Gly Ile Ala Ala Met Gly Tyr Ser Ser Ser Asp
            100                 105                 110


Tyr Asp Gly Ala Gly Thr Val Leu Thr Val Asn
        115                 120
```

<210> 3

<211> 339
<212> DNA
<213> Orectolobus maculatus

<220>
<221> V19
<222> (1)..(339)

<220>
<221> SEQ ID NO: 3
<222> (1)..(339)

<400> 3
caacgggttg aacaaacacc aagaacagca acaaaagaga cgggcgaatc actgaccatc 60

aactgcgtcc taagagatgc tagttttgaa ttaaaagaca cgggctggta tcggacaaaa 120

ttgggttcaa caaatgagca gagtatatca attggcggac gatatgttga aacagtcaac 180

aagggatcaa agtccttttc tctgagaatt agtgatctga gagttgaaga cagtggcacg 240

tataagtgtc aagcattcta ttctcttccg ttgggcgatt acaactattc tctgctgttt 300

aggggtgaga aaggagctgg caccgtgctg actgtgaac 339

<210> 4
<211> 114
<212> PRT
<213> Orectolobus maculatus

<220>
<221> V19
<222> (1)..(114)

<220>
<221> SEQ ID NO: 4
<222> (1)..(114)

<400> 4

Ala Gln Arg Val Glu Gln Thr Pro Arg Thr Ala Thr Lys Glu Thr Gly
1 5 10 15

Glu Ser Leu Thr Ile Asn Cys Val Leu Arg Asp Ala Ser Phe Glu Leu

20 25 30

Lys Asp Thr Gly Trp Tyr Arg Thr Lys Leu Gly Ser Thr Asn Glu Gln
35 40 45

Ser Ile Ser Ile Gly Gly Arg Tyr Val Glu Thr Val Asn Lys Gly Ser
50 55 60

Lys Ser Phe Ser Leu Arg Ile Ser Asp Leu Arg Val Glu Asp Ser Gly
65 70 75 80

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

Tyr Ser Leu Leu Phe Arg Gly Glu Lys Gly Ala Gly Thr Val Leu Thr
100 105 110

Val Asn

<210> 5
<211> 342
<212> DNA
<213> Heterodontus francisci

<220>
<221> V32R
<222> (1)..(342)

<220>
<221> SEQ ID NO: 5
<222> (1)..(342)

<400> 5
gcaagcctgg accaaacacc aagaacggca acgagagaga cgggcgaatc cctgaccatt 60

aactgcgtct tcactgattc tagctgtggt ttgtgcggca catcttggtt ccggaataat 120

ccgggttcaa cagattggga acgcataacg attggcggac gatatgttga atcagtcaac 180

aagggagcaa agtcattttc tctgcaaatc aaggacctga cagttgaaga cagtgtcacc 240

tattactgca aagcgcaagg tcatcgatac ttcagtaagg tgtgcgagct gcgatgtccc 300

agttactact acgacggagc tggcaccgtg ctgactgtga ac 342

<210> 6
<211> 115
<212> PRT
<213> Heterodontus francisci

<220>
<221> V32R
<222> (1)..(115)

<220>
<221> SEQ ID NO: 6
<222> (1)..(115)

<400> 6

Ala Ala Ser Leu Asp Gln Thr Pro Arg Thr Ala Thr Arg Glu Thr Gly
1 5 10 15

Glu Ser Leu Thr Ile Asn Cys Val Phe Thr Asp Ser Ser Cys Gly Leu
20 25 30

Cys Gly Thr Ser Trp Phe Arg Asn Asn Pro Gly Ser Thr Asp Trp Glu
35 40 45

Arg Ile Thr Ile Gly Gly Arg Tyr Val Glu Ser Val Asn Lys Gly Ala
50 55 60

Lys Ser Phe Ser Leu Gln Ile Lys Asp Leu Thr Val Glu Asp Ser Val
65 70 75 80

Thr Tyr Tyr Cys Lys Ala Gln Gly His Arg Tyr Phe Ser Lys Val Cys
85 90 95

Glu Leu Arg Cys Pro Ser Tyr Tyr Tyr Asp Gly Ala Gly Thr Val Leu

100 105 110

Thr Val Asn
115

<210> 7
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> A y B VEGF
<222> (1)..(94)

<220>
<221> SEQ ID NO: 7
<222> (1)..(94)

<220>
<221> VEGF: A y B
<222> (1)..(94)

<400> 7

Val Val Lys Phe Met Asp Val Tyr Gln Arg Ser Tyr Cys His Pro Ile
1 5 10 15

Glu Thr Leu Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr
20 25 30

Ile Phe Lys Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys
35 40 45

Asn Asp Glu Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr
50 55 60

Met Gln Ile Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu
65 70 75 80

Met Ser Phe Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys

85 90

<210> 8
<211> 113
<212> PRT
<213> Orectolobus maculatus

<220>
<221> vNAR V19
<222> (1)..(113)

<220>
<221> SEQ ID NO: 8
<222> (1)..(113)

<400> 8

Ala Trp Val Asp Gln Thr Pro Arg Thr Ala Thr Lys Glu Thr Gly Glu
1 5 10 15

Ser Leu Thr Ile Asn Cys Val Leu Arg Asp Ala Ser Phe Glu Leu Lys
20 25 30

Asp Thr Gly Trp Tyr Arg Thr Lys Leu Gly Ser Thr Asn Glu Gln Ser
35 40 45

Ile Ser Ile Gly Gly Arg Tyr Val Glu Thr Val Asn Lys Gly Ser Lys
50 55 60

Ser Phe Ser Leu Arg Ile Ser Asp Leu Arg Val Glu Asp Ser Gly Thr
65 70 75 80

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

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

Lys

<210> 9
<211> 121
<212> PRT
<213> Heterodontus francisci

<220>
<221> vNARV 32R
<222> (1)..(121)

<220>
<221> SEQ ID NO: 9
<222> (1)..(121)

<400> 9

```
Met Ala Ala Ser Leu Asp Gln Thr Pro Arg Thr Ala Thr Arg Glu Thr
1               5                   10                  15


Gly Glu Ser Leu Thr Ile Asn Cys Val Phe Thr Asp Ser Ser Cys Gly
            20                  25                  30


Leu Cys Gly Thr Ser Trp Phe Arg Asn Asn Pro Gly Ser Thr Asp Trp
        35                  40                  45


Glu Arg Ile Thr Ile Gly Gly Arg Tyr Val Glu Ser Val Asn Lys Gly
    50                  55                  60


Ala Lys Ser Phe Ser Leu Gln Ile Lys Asp Leu Thr Val Glu Asp Ser
65                  70                  75                  80


Val Thr Tyr Tyr Cys Lys Ala Gln Gly His Arg Tyr Phe Ser Lys Val
                85                  90                  95


Cys Glu Leu Arg Cys Pro Ser Tyr Tyr Tyr Asp Gly Ala Gly Thr Val
            100                 105                 110


Leu Thr Val Asn Gly Gln Ala Gly Gln
```

115 120

<210> 10
<211> 26
<212> DNA
<213> Elasmobranchii

<220>
<221> IgNAR cds parcial
<222> (1)..(26)

<220>
<221> SEQ ID NO: 10
<222> (1)..(26)

<400> 10
gttcacagtc agcacggtgc cagctc 26

<210> 11
<211> 20
<212> DNA
<213> Desconocido

<220>
<221> Oligonucleótido sentido No.1
<222> (1)..(20)

<220>
<221> SEQ ID NO: 11
<222> (1)..(20)
<223> Secuencia artificial

<400> 11
caacgggttg aacaaacacc 20

<210> 12
<211> 20
<212> DNA
<213> Desconocida

<220>
<221> Oligonucleótido sentido No.2

<222> (1)..(20)

<220>
<221> SEQ ID NO: 12
<222> (1)..(20)
<223> Secuancia artificial

<400> 12
caacgggttg aacaaacacc 20

<210> 13
<211> 20
<212> DNA
<213> Desconocida

<220>
<221> Oligonucleótido sentido No.3
<222> (1)..(20)

<220>
<221> SEQ ID NO: 13
<222> (1)..(20)
<223> Secuencia artificial

<400> 13
acaagggtag accaaacacc 20

<210> 14
<211> 20
<212> DNA
<213> Desconocida

<220>
<221> Oligonucleótido sentido No.4
<222> (1)..(20)

<220>
<221> SEQ ID NO: 14
<222> (1)..(20)

<220>
<221> seq id no: 14
<222> (1)..(20)
<223> Secuencia artificial

<400> 14
gcaagggtgg accaaacacc 20

<210> 15
<211> 20
<212> DNA
<213> Desconocida

<220>
<221> Oligonucleótido sentido No.5
<222> (1)..(20)

<220>
<221> SEQ ID NO: 15
<222> (1)..(20)
<223> Secuencia artificial

<400> 15
gcatgggtag accaaacacc 20

<210> 16
<211> 20
<212> DNA
<213> Desconocida

<220>
<221> Oligonucleótido sentido No.6
<222> (1)..(20)

<220>
<221> SEQ ID NO: 16
<222> (1)..(20)
<223> Secuencia artificial

<400> 16
gcaagcctgg accaaacacc 20

<210> 17
<211> 20
<212> DNA
<213> Desconocida

<220>
<221> Oligonucleótido sentido No.7
<222> (1)..(20)

<220>
<221> SEQ ID NO: 17
<222> (1)..(20)

<400> 17
gcattgacgg accaaacacc 20