

## SEQUENCE LISTING

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<120> ANTI-TRPV6 MONOCLONAL ANTIBODY AND APPLICATION THEREOF

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<170> PatentIn version 3.5

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<210> 2

<211> 765

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; TRPV6

&lt;222&gt; (1)..(765)

&lt;400&gt; 2

Met Gly Pro Leu Gln Gly Asp Gly Gly Pro Ala Leu Gly Gly Ala Asp  
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Val Ala Pro Arg Leu Ser Pro Val Arg Val Trp Pro Arg Pro Gln Ala  
           20            25            30

Pro Lys Glu Pro Ala Leu His Pro Met Gly Leu Ser Leu Pro Lys Glu  
           35            40            45

Lys Gly Leu Ile Leu Cys Leu Trp Ser Lys Phe Cys Arg Trp Phe Gln  
       50            55            60

Arg Arg Glu Ser Trp Ala Gln Ser Arg Asp Glu Gln Asn Leu Leu Gln  
 65            70            75            80

Gln Lys Arg Ile Trp Glu Ser Pro Leu Leu Leu Ala Ala Lys Asp Asn  
           85            90            95

Asp Val Gln Ala Leu Asn Lys Leu Leu Lys Tyr Glu Asp Cys Lys Val  
           100            105            110

His Gln Arg Gly Ala Met Gly Glu Thr Ala Leu His Ile Ala Ala Leu  
           115            120            125

Tyr Asp Asn Leu Glu Ala Ala Met Val Leu Met Glu Ala Ala Pro Glu  
           130            135            140

Leu Val Phe Glu Pro Met Thr Ser Glu Leu Tyr Glu Gly Gln Thr Ala

145                      150                      155                      160

Leu His Ile Ala Val Val Asn Gln Asn Met Asn Leu Val Arg Ala Leu  
                     165                      170                      175

Leu Ala Arg Arg Ala Ser Val Ser Ala Arg Ala Thr Gly Thr Ala Phe  
                     180                      185                      190

Arg Arg Ser Pro Cys Asn Leu Ile Tyr Phe Gly Glu His Pro Leu Ser  
                     195                      200                      205

Phe Ala Ala Cys Val Asn Ser Glu Glu Ile Val Arg Leu Leu Ile Glu  
                     210                      215                      220

His Gly Ala Asp Ile Arg Ala Gln Asp Ser Leu Gly Asn Thr Val Leu  
                     225                      230                      235                      240

His Ile Leu Ile Leu Gln Pro Asn Lys Thr Phe Ala Cys Gln Met Tyr  
                     245                      250                      255

Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln Pro Leu  
                     260                      265                      270

Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu Ala Gly  
                     275                      280                      285

Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys Arg Lys  
                     290                      295                      300

His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr Asp Leu  
                     305                      310                      315                      320

Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu Leu Ile  
 325 330 335

Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln Thr Pro  
 340 345 350

Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg Pro Tyr  
 355 360 365

Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys Phe Thr  
 370 375 380

Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr  
 385 390 395 400

Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala  
 405 410 415

Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr  
 420 425 430

Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp Ile Phe  
 435 440 445

Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly Gly Pro  
 450 455 460

Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val Thr Met  
 465 470 475 480

Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe  
 485 490 495

Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe  
 500 505 510

Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly  
 515 520 525

Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe  
 530 535 540

Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu Glu Leu  
 545 550 555 560

Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe Glu Leu  
 565 570 575

Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp Leu Pro  
 580 585 590

Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala Thr Leu  
 595 600 605

Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His Trp Arg  
 610 615 620

Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val Ala Thr  
 625 630 635 640

Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro Arg Ser  
 645 650 655

Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe Leu Arg  
 660 665 670

Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg Tyr Ala  
 675 680 685

Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp Ser Val  
 690 695 700

Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser Leu Pro  
 705 710 715 720

Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn Trp Glu  
 725 730 735

Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile Ile Asn  
 740 745 750

Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile  
 755 760 765

<210> 3

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3

Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg Asp Asn Thr  
 1 5 10 15

Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr Pro Lys  
 20 25 30

<210> 4

<211> 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4

Ile Phe Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe  
 1 5 10

&lt;210&gt; 5

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

Asp Gly Pro Ala Asn Tyr Asn Val Asp Leu Pro Phe  
 1 5 10

&lt;210&gt; 6

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 6

gacattgtga tgtcacagtc tccatcctcc ctagctgtgt cagttggaga gaaggttact 60  
 atgagctgca agtccagtca gagcctttta tatagtacca atcaaaagaa ctacttgGCC 120  
 tggTcccagc agaaaccagg gcagtctcct aaactgctga ttactgggc atccactagg 180  
 gaatctgggg tcctgatcg cttcacaggc agtggatctg ggacagattt cacttcacc 240  
 atcagcagtg tgaaggctga agacctggca gtttattact gtcagcaata ttatagctat 300  
 ccgtggacgt tcggtggagg caccaagctg gaaatcaaa 339

&lt;210&gt; 7

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

<400> 7

Gly Tyr Thr Phe Thr Ser Tyr Trp  
1 5

<210> 8

<211> 8

<212> PRT

<213> Mus musculus

<400> 8

Ile Asp Pro Ser Asp Gly Tyr Thr  
1 5

<210> 9

<211> 6

<212> PRT

<213> Mus musculus

<400> 9

Gly Trp Ala Gly Asp Phe  
1 5

<210> 10

<211> 11

<212> PRT

<213> Mus musculus

<400> 10

Gln Ser Leu Leu Asp Ser Asp Gly Lys Thr Tyr  
1 5 10

<210> 11

<211> 4

<212> PRT

<213> Mus musculus

<220>

<221> misc\_feature

<222> (4)..(4)

<223> Xaa is absent.

<400> 11

Leu Val Ser Xaa

1

<210> 12

<211> 9

<212> PRT

<213> Mus musculus

<400> 12

Trp Gln Gly Thr His Phe Pro Gln Thr

1

5

<210> 13

<211> 8

<212> PRT

<213> Mus musculus

<400> 13

Gly Phe Thr Phe Ser Tyr Tyr Trp

1

5

<210> 14

<211> 10

<212> PRT

<213> Mus musculus

<400> 14

Ile Arg Leu Lys Ser His Asn Tyr Ala Thr  
 1            5                    10

<210> 15  
 <211> 16  
 <212> PRT  
 <213> Mus musculus

<400> 15

Ala Arg Leu Ala Tyr Asp Gly Glu Arg Tyr Tyr Tyr Ala Leu Asp Tyr  
 1            5                    10                    15

<210> 16  
 <211> 12  
 <212> PRT  
 <213> Mus musculus

<400> 16

Gln Ser Leu Leu Tyr Ser Asn Asn Gln Lys Asn Tyr  
 1            5                    10

<210> 17  
 <211> 4  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> Xaa is absent.

<400> 17

Trp Ala Ser Xaa  
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<210> 18  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 18

Gln Gln Tyr Tyr Ser Tyr Pro Phe Thr  
 1 5

<210> 19  
 <211> 8  
 <212> PRT  
 <213> Mus musculus

<400> 19

Ala Phe Thr Phe Ser His Tyr Trp  
 1 5

<210> 20  
 <211> 10  
 <212> PRT  
 <213> Mus musculus

<400> 20

Ile Arg Leu Lys Ser Tyr Asn Tyr Ala Thr  
 1 5 10

<210> 21  
 <211> 15  
 <212> PRT  
 <213> Mus musculus

<400> 21

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

<210> 22  
 <211> 12  
 <212> PRT  
 <213> Mus musculus

<400> 22

Gln Ser Leu Leu Tyr Ser Thr Asn Gln Lys Asn Tyr  
 1 5 10

<210> 23  
 <211> 4  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> Xaa is absent.

<400> 23

Trp Ala Ser Xaa  
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<210> 24  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 24

Gln Gln Tyr Tyr Ser Tyr Pro Trp Thr  
 1 5

<210> 25  
 <211> 113  
 <212> PRT

<213> Mus musculus

<400> 25

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

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
20 25 30

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

Gly Glu Ile Asp Pro Ser Asp Gly Tyr Thr Asn Tyr Asn Gln Lys Phe  
50 55 60

Arg Gly Lys Ala Thr Leu Ser Val Asp Lys Ser Ser Thr Thr Ala Tyr  
65 70 75 80

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

Gly Trp Ala Gly Asp Phe Trp Gly Gln Gly Thr Thr Leu Thr Val Ser  
100 105 110

Ser

<210> 26

<211> 112

<212> PRT

<213> Mus musculus

<400> 26

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

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser  
 20 25 30

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

Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Ala Ala Pro  
 50 55 60

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

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

Thr His Phe Pro Gln Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
 100 105 110

<210> 27  
 <211> 125  
 <212> PRT  
 <213> Mus musculus

<400> 27

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

Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Tyr Tyr  
 20 25 30

Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Glu Ile Arg Leu Lys Ser His Asn Tyr Ala Thr His Tyr Ala Glu  
 50 55 60

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

Val Tyr Leu Gln Met Asn Asn Leu Arg Ser Glu Asp Thr Gly Ile Tyr  
 85 90 95

Tyr Cys Ala Arg Leu Ala Tyr Asp Gly Glu Arg Tyr Tyr Tyr Ala Leu  
 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
 115 120 125

<210> 28  
 <211> 113  
 <212> PRT  
 <213> Mus musculus

<400> 28

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

Glu Lys Phe Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser  
 20 25 30

Asn Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr  
 65 70 75 80

Ile Ser Ser Val Lys Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln  
 85 90 95

Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile  
 100 105 110

Lys

<210> 29  
 <211> 124  
 <212> PRT  
 <213> Mus musculus

<400> 29

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

Ser Met Lys Leu Ser Cys Val Ala Ser Ala Phe Thr Phe Ser His Tyr  
 20 25 30

Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Glu Ile Arg Leu Lys Ser Tyr Asn Tyr Ala Thr His Tyr Ala Glu  
 50 55 60

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

Val Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Gly Ile Tyr  
                     85                      90                      95

Tyr Cys Thr Arg Leu Gly Tyr Phe Gly Ser Leu Tyr Tyr Ala Met Asp  
                     100                      105                      110

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

<210> 30  
 <211> 112  
 <212> PRT  
 <213> Mus musculus

<400> 30

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser  
                     20                      25                      30

Thr Asn Gln Lys Asn Tyr Leu Ala Trp Ser Gln Gln Lys Pro Gly Gln  
                     35                      40                      45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Glu Ser Gly Val Pro  
                     50                      55                      60

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

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

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

<210> 31  
 <211> 339  
 <212> DNA  
 <213> Mus musculus

<400> 31  
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 tcctgcaagg cttctggcta caccttcacc agctactgga tgcactgggt gaagcagagg 120  
 cctggacaag gccttgagtg gatcggagag attgatcctt ctgatgggta tactaactac 180  
 aatcaaaagt tcaggggcaa ggccacattg tctgtagaca aatcctccac cacagcctac 240  
 atgcagctca gcagcctgac atctgaggac tctgcggtct attactgtgg gtgggpcgggg 300  
 gacttctggg gccaaaggcac cactctcaca gtctcctca 339

<210> 32  
 <211> 336  
 <212> DNA  
 <213> Mus musculus

<400> 32  
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 ttgttacaga ggccaggcca gtctccaaag cgctaatct atctggtgtc taagctggac 180  
 tctgcagccc ctgacagggt cgctggcagt ggatcaggga cagatttcac actgaaaatc 240  
 agcagagtgg aggctgaaga tttgggaatt tactattgct ggcaagggtac acattttcct 300

cagacgttcg gtggaggcac caagctggaa atcaaa 336

<210> 33  
 <211> 375  
 <212> DNA  
 <213> Mus musculus

<400> 33  
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 tcctgtgttg cctctggatt cactttcagt tactactgga tgaactgggt ccgccagtct 120  
 ccagagaagg ggcttgagtg ggttgctgaa attagattga aatctcataa ttatgcaaca 180  
 cattatgcgg agtctgtgaa agggaggttc accatctcaa gagatgattc caaaagtagt 240  
 gtctacctgc aaatgaacaa ctaagatct gaagacactg gcattatta ctgtgccagg 300  
 cttgcttacg acggggagcg gtattactat gctctggact actgggggtca aggaacctca 360  
 gtcaccgtct cctca 375

<210> 34  
 <211> 339  
 <212> DNA  
 <213> Mus musculus

<400> 34  
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 atgagctgca agtccagtca gagcctttta tatagtaaca atcaaaagaa ctacttggcc 120  
 tggtagcagc agaaaccagg gcagtctcct aaactgctga ttactgggc atccactagg 180  
 gaatctgggg tccctgatcg cttcacaggc agtggatatg ggacagattt cactctcacc 240  
 atcagcagtg tgaaggctga agacctggca gtttattact gtcagcaata ttatagctat 300  
 ccattcacgt tcggctcggg gacaaagttg gaaataaaa 339

<210> 35  
<211> 372  
<212> DNA  
<213> Mus musculus

<400> 35  
gaagtgatgc ttgaggagtc tggaggaggc ttagtgcaac ctggaggatc catgaagctc 60  
tcctgtgttg cctctgcatt cactttcagt cactactgga tgaactgggt ccgccagtct 120  
ccagagaagg ggcttgagtg ggttgctgaa attagattga aatcttataa ttatgcaaca 180  
cattatgcgg agtctgtgaa agggagggtc accatctcca gagatgattc caagagtagt 240  
gtctacctgc aatgaacag cctaaggcct gaagacactg gcatttatta ctgtaccagg 300  
cttggttact tcggtagcct ctactatgct atggactact ggggtcaagg aacctcagtc 360  
accgtctcct ca 372