SEQUENCE LISTING

<110> YAMAGUCHI UNIVERSITY

<120> Immune cells expressing immune-regulatory factors, and Vectors

<130> FH28-007WO

<150> JP 2016-053913
<151> 2016-03-17

<160> 14

<170> PatentIn version 3.1

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<220>
<223> Inventor: Tamada, Koji
Inventor: Sakoda, Yukimi
Inventor: Adachi, Keishi

<400> 1

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Asp Gly Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile Asp Gln Leu
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Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe
    50                  55                  60

Asn Phe Phe Lys Arg His Ile Cys Asp Ala Asn Lys Glu Gly Met Phe
65                  70                  75                  80

Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser
                85                  90                  95

Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr
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Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala
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Val Thr Gln Lys Pro Ile Pro Gly Tyr Ile Val Arg Asn Phe His Tyr
35 40 45

Leu Leu Ile Lys Asp Gly Cys Arg Val Pro Ala Val Val Phe Thr Thr
50 55 60

Leu Arg Gly Arg Gln Leu Cys Ala Pro Pro Asp Gln Pro Trp Val Glu
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Arg Ile Ile Gln Arg Leu Gln Arg Thr Ser Ala Lys Met Lys Arg Arg
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Gly Asp Val Glu Ser Asn Pro Gly Pro
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tcttgcagat ctagtcagag ccttgtacac agtaatggaa acacctattt acgttggtac 180

ctgcagaagc caggccagtc tccaaaggtc ctgatctaca aagtttccaa ccgattttct 240

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acgttcggtg gaggcaccaa gctggaaatc aaaagtagtg ctgatgatgc taagaaggat 420

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atggactact ggggtcaagg aacctcagtc accgtctccg cggccgcagt cgtgccagtc 840

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ctgatgatca gcatcgatga attggacaaa atgacaggaa ctgatagtaa ttgcccgaat 180

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aagctggaaa tcaagggcgg aggcggatct ggcggcggag gatctggggg aggcggctct 420

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Glu Gly Lys Ala Tyr Glu Ser Val Leu Met Ile Ser Ile Asp Glu Leu
35 40 45

Asp Lys Met Thr Gly Thr Asp Ser Asn Cys Pro Asn Asn Glu Pro Asn
50 55 60

Phe Phe Arg Lys His Val Cys Asp Asp Thr Lys Glu Ala Ala Phe Leu
65 70 75 80

Asn Arg Ala Ala Arg Lys Leu Lys Gln Phe Leu Lys Met Asn Ile Ser
85 90 95

Glu Glu Phe Asn Val His Leu Leu Thr Val Ser Gln Gly Thr Gln Thr
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Leu Val Asn Cys Thr Ser Lys Glu Glu Lys Asn Val Lys Glu Gln Lys
115 120 125

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Lys Asn Asp Ala Cys Phe Leu Lys Arg Leu Leu Arg Glu Ile Lys Thr
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Cys Trp Asn Lys Ile Leu Lys Gly Ser Ile Gly Ser Gly Val Lys Gln
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Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn
                165                 170                 175

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

Leu Val Leu Trp Thr Phe Pro Ala Pro Thr Leu Gly Gly Ala Asn Asp
        195                 200                 205

Ala Glu Asp Cys Cys Leu Ser Val Thr Gln Arg Pro Ile Pro Gly Asn
    210                 215                 220

Ile Val Lys Ala Phe Arg Tyr Leu Leu Asn Glu Asp Gly Cys Arg Val
225                 230                 235                 240

Pro Ala Val Val Phe Thr Thr Leu Arg Gly Tyr Gln Leu Cys Ala Pro
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Pro Asp Gln Pro Trp Val Asp Arg Ile Ile Arg Arg Leu Lys Lys Ser
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Ser Ala Lys Asn Lys Gly Asn Ser Thr Arg Arg Ser Pro Val Ser Glu
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Phe Gly Ser Gly Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu
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Ala Gly Asp Val Glu Ser Asn Pro Gly Pro Cys Met Val Ser Lys Gly
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Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly
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Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp
            340                 345                 350

Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys
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Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Thr Tyr Gly Val
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Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln His Asp Phe Phe
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Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly
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Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu
        435                 440                 445

Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser His
    450                 455                 460

Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val Asn
465                 470                 475                 480

Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp
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His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro
            500                 505                 510

Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn
        515                 520                 525

Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly
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Ile Thr Leu Gly Met Asp Glu Leu Tyr Lys
545                 550
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