

Activin A Sequence Listing\_ST25.txt  
SEQUENCE LISTING

<110> Hatsell, Sarah J.  
Economides, Aris N.

<120> Treatment Of Fibrodysplasia Ossificans Progressiva

<130> 057766/UPDATE

<160> 24

<170> PatentIn version 3.5

<210> 1

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 1

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Phe Ser Ser His  
20 25 30

Phe Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile  
35 40 45

Gly Tyr Ile Leu Tyr Thr Gly Gly Thr Ser Phe Asn Pro Ser Leu Lys  
50 55 60

Ser Arg Val Ser Met Ser Val Gly Thr Ser Lys Asn Gln Phe Ser Leu  
65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Ala Arg Ser Gly Ile Thr Phe Thr Gly Ile Ile Val Pro Gly Ser  
100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser  
115 120 125

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

# Activin A Sequence Listing\_ST25.txt

<400> 2

Gly Gly Ser Phe Ser Ser His Phe  
1 5

<210> 3

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 3

Ile Leu Tyr Thr Gly Gly Thr  
1 5

<210> 4

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 4

Ala Arg Ala Arg Ser Gly Ile Thr Phe Thr Gly Ile Ile Val Pro Gly  
1 5 10 15

Ser Phe Asp Ile  
20

<210> 5

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 5

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser  
20 25 30

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

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
50 55 60

# Activin A Sequence Listing\_ST25.txt

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

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro  
85 90 95

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

<210> 6  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthesized

<400> 6

Gln Ser Val Ser Ser Ser Tyr  
1 5

<210> 7  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthesized

<400> 7

Gly Ala Ser  
1

<210> 8  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthesized

<400> 8

Gln Gln Tyr Gly Ser Ser Pro Trp Thr  
1 5

<210> 9  
<211> 125  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthesized

# Activin A Sequence Listing\_ST25.txt

<400> 9

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

Ser Leu Arg Leu Ser Cys Lys Ala Ser Gly Phe Ala Phe Asp Asp Phe  
20 25 30

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

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

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

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

Val Lys Asp Met Val Arg Gly Leu Met Gly Phe Asn Tyr Tyr Gly Met  
100 105 110

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

<210> 10

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 10

Gly Phe Ala Phe Asp Asp Phe Ala  
1 5

<210> 11

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 11

Ile Val Trp Asn Ser Gly Asp Ile  
1 5

<210> 12

# Activin A Sequence Listing\_ST25.txt

<211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthesized

<400> 12

Val Lys Asp Met Val Arg Gly Leu Met Gly Phe Asn Tyr Tyr Gly Met  
 1 5 10 15

Asp Val

<210> 13  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthesized

<400> 13

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

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Thr Ile Ser Thr Tyr  
 20 25 30

Leu Val Trp Tyr Arg Gln Arg Pro Gly Gln Ala Pro Ser Leu Leu Ile  
 35 40 45

Tyr Asp Ala Ser Asn Arg Ala Thr Asp Ile Pro Ala Arg Phe Ser Gly  
 50 55 60

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser Asn Trp Pro Ile  
 85 90 95

Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105

<210> 14  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthesized

# Activin A Sequence Listing\_ST25.txt

<400> 14

Gln Thr Ile Ser Thr Tyr  
1 5

<210> 15

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 15

Asp Ala Ser

1

<210> 16

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthesized

<400> 16

Gln Gln Arg Ser Asn Trp Pro Ile Thr  
1 5

<210> 17

<211> 106

<212> PRT

<213> Homo sapiens

<400> 17

Ser Tyr Glu Val Thr Gln Ala Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

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

Cys Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

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

Activin A Sequence Listing\_ST25.txt

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 18  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 18

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

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

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

Gly Trp Ile Ile Pro Tyr Asn Gly Asn Thr Asn Ser Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

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

Ala Arg Asp Arg Asp Tyr Gly Val Asn Tyr Asp Ala Phe Asp Ile Trp  
100 105 110

Gly Gln Gly Thr Met Val Thr Val Ser Ser  
115 120

<210> 19  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 19

Ser Gly Asp Lys Leu Gly Asp Lys Tyr Ala Cys  
1 5 10

<210> 20  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 20

Activin A Sequence Listing\_ST25.txt

Gln Asp Ser Lys Arg Pro Ser  
1 5

<210> 21  
<211> 9  
<212> PRT  
<213> Homo sapiens  
<400> 21

Gln Ala Trp Asp Ser Ser Thr Ala Val  
1 5

<210> 22  
<211> 10  
<212> PRT  
<213> Homo sapiens  
<400> 22

Gly Tyr Thr Phe Thr Ser Tyr Gly Leu Ser  
1 5 10

<210> 23  
<211> 17  
<212> PRT  
<213> Homo sapiens  
<400> 23

Trp Ile Ile Pro Tyr Asn Gly Asn Thr Asn Ser Ala Gln Lys Leu Gln  
1 5 10 15

Gly

<210> 24  
<211> 13  
<212> PRT  
<213> Homo sapiens  
<400> 24

Asp Arg Asp Tyr Gly Val Asn Tyr Asp Ala Phe Asp Ile  
1 5 10