




MULTI SPACERS TYPING - COXIELLA BURNETII

[Bacteria Info](#)[Group List](#)[Spacers Info](#)[Strain List](#)[Phylogeny UPGMA](#)[Sequence compare](#)[New Spacer / MLST ?](#)[Admin](#)Click on  to see more information about the blast.

1 sequence(s) perfectly match a spacer profil

>cox22 is Cox22.6 


9 New spacer profile

>cox2 is a new Cox2 

| | | Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|---------|-----|---|--------------|------------|------------------|----------------|---------|----------|
| | | >cox2 | Cox2.5 | 98.319 | 357 | 356 | | 623 |
| Query | 1 | A T G T T T A G A A T A A A A T C A G T T A A G G A A A C A G A T G T A A A T A A A G A A T T G G A T T T T G A G C C C | | | | | | |
| Subject | 1 | A T G T T T A G A A C A A A A T C A G T T A A G G A A A C A G A T G T A A A T A A A G A A T T G G A T T T T G A G C C C | | | | | | |
| Query | 61 | A T T G C T T C T T T C A C T A A G T A A T A A T T T A C T T T A A A A A T T T T T T A T T G A C C G C T T A A A T A C | | | | | | |
| Subject | 61 | A T T G C T T C T T T C A C T A A G T A A T A A T T T A C T T T A A A A A T T T T T T A T T G A C C G C T T A A A T A C | | | | | | |
| Query | 121 | T C T A A A T A A T T T T A T A T T T C A G C A A T T C T A A T T T T G A C T C T T A C A G T T C C G T T A T T C T C G | | | | | | |
| Subject | 121 | T C T A A A T A A T T T T A T A T T T C A G C A A T T C T A A T T T T G A C T C T T A C A G T T C C G T T A T T C C C G | | | | | | |
| Query | 181 | C G T A G G C G G G A A T G A C G A A C T T A A A A T T A G A A T T A C T G C C T T T T - - G G T T T C T T T A C A T | | | | | | |
| Subject | 181 | C G C A G G C G G G A A T G A C G A A C T T A A A A T T A G A A T T A C T G C C T T T T T T G G T T T C - T T T A C A T | | | | | | |
| Query | 239 | T G C A A G A A A G A T T A G A T A A A A T A A A T A C T T A T A A T T A A G G A A G A T T T A A C G T T T C G A A A A | | | | | | |
| Subject | 240 | T G C A A G A A A G A T T A G A T A A A A T A A A T A C T T A T A A T T A A G G A A G A T T T A A C G T T T C G A A A A | | | | | | |
| Query | 299 | C C T A G A A A G G C G A G C A G C C A T G G G A A C G A A T C A A A C G A A A C A G A G A G A A A C T C A A C C | | | | | | |
| Subject | 300 | C C T A G A A A G G C G A G C A G C C A T G G G A A C G A A T C A A A C G A A A C A G A G A G A A A C T C A A C C | | | | | | |

>cox5 is a new Cox5 

| | | Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|---------|-----|---|--------------|------------|------------------|----------------|---------|----------|
| | | >cox5 | Cox5.6 | 98.592 | 355 | 354 | | 627 |
| Query | 1 | A A A A C G C T C T C C G A G G T G T T T G G T G T G T T G A A T A A A T A T T T T A G A T A A T G A T G A T G T G A | | | | | | |
| Subject | 1 | A A A A C G C T C T C C G A G G T G T T T G G T G T G T T G A A T A A A T A T T T T A G A T A A T G A T G A T G T G A | | | | | | |
| Query | 61 | T T T G T T C T A G T A A T T T C G C A G T G A T A T G C T T A A C A T A A G C A C G T A T T G T C C C T C T C C C C | | | | | | |
| Subject | 61 | T T T G T T C T A G T A A T T T C G C A G T G A T A T G C T T A A C A T A A G C A C G T A T T G T C C C T C T C C C C | | | | | | |
| Query | 121 | T C G A G G A G A G G G T T A A G G A A G A A G G G T T T T A A A G A A C C T A A C T G C T G C G G T T T T T A C C | | | | | | |
| Subject | 121 | T C G A G G A G A G G G T T A A G G - A G A G G G T T T T A A A G A A C C T A A C T G C T G C G G T T T T T A C C | | | | | | |
| Query | 181 | T C T C C T A G C C T C T C C C G C A G G C G G G - G A G G A A T A G C G G A A G G A G G C A T T G A G G A T T T A T | | | | | | |
| Subject | 180 | T C T C C T A G C C T C T C C C G C A G G C G G G A G G G A A T A G C G G A A G G A G G C A T T G A G G A T T T A T | | | | | | |
| Query | 240 | C A A C T C C T T T T G A G T G C C A T C C A A G T T C T T T T T T C T G A A A C A C T A T C A A G G T T G G G G T C | | | | | | |
| Subject | 240 | C A A C T C C T T T T T A G T G C C A T C C A A G T T C T T T T T T C T G A A A C A C T A T C A A G G T T G G G G T C | | | | | | |
| Query | 300 | A T A T G T T A A C A A C A C G A T T A A A A A T A T T T C T T T C A A T C A T C T C G C T T T C T T T G T T | | | | | | |
| Subject | 300 | A T A T G T T A A C A A C A C G A T T A A A A A T A T T T C T T T C A A T C A T C T C G C T T T C T T T G T T | | | | | | |


>Cox18 is a new Cox18 

| | | Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|---------|-----|---|--------------|------------|------------------|----------------|---------|----------|
| | | >Cox18 | Cox18.12 | 99.419 | 516 | 516 | | 937 |
| Query | 1 | G T G G C A T T G A C G A A G T T T T G A A G A G G G G A G C G C G G T A G T T A T A C C C C T A T C A A A A , | | | | | | |
| Subject | 1 | G T G G C A T T G A C G A A G T T T T G A A G A G G G G A G C G C G G T A G T T A T A C C C C T A T C A A A A , | | | | | | |
| Query | 61 | A A G C C G T C A T T C C G C G C A G A C G C A T A G G C G T C A A C T T A A A G A G A G C G A G G T A A A , | | | | | | |
| Subject | 61 | A A G C C G T C A T T C C G C G C A G A C G C A T A G G C G T C A A C T T A A A G A G A G C G A G G T A A A , | | | | | | |
| Query | 121 | A A T A T C A A G T A G T T G A A A A A T A T C C G T C G T T C C G T G A C T T C G G C C G T G A A G G T , | | | | | | |
| Subject | 121 | A A T A T C A A G T A G T T G A A A A A T A T C C G T C G T T C C G T G A C T T C G G C C G T G A A G G T , | | | | | | |
| Query | 181 | A T G C T T C A A T A C T A C A G C A G A C G G C C T C G C G G G A G G A C G A C G G G G T T T A A G T T T T , | | | | | | |
| Subject | 181 | A T G C T T C A A T A C T A C A G C A G A C G G C C T C G C G G G A G G A C G A C G G G G T T T A A G T T T T , | | | | | | |
| Query | 241 | C T T C A C C A T G G G T G G G T A A T A T T A G G A T C C G T G G T A A G C T T T G A A A G G A G C A A G G , | | | | | | |
| Subject | 241 | C T T C A C C A T G G G T G G G T A A T A T T A G G A T C C G T G G T A A G C T T T G A A A G G A G C A A G G , | | | | | | |
| Query | 301 | G A G G G C A T C A A C T T A C A G T C A T T T C A G T T T T A T G C T T A A G T T G G C G C T T C T G T G A , | | | | | | |
| Subject | 301 | G A G G G C A T C A A C T T A C A G T C A T T T A G A G T T T T A T G C T T A A G T T G G C G C T T C T G T G A , | | | | | | |
| Query | 361 | T T G G A A T A A C G A A G G C C A A A A A A G G G G G G C G C T G G G A G T T T T T A C T A C C C T T A C T , | | | | | | |

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Subject 361 |T|T|G|G|A|A|T|A|A|C|G|A|A|G|G|C|C|A|A|A|A|A|G|G|G|G|G|G|C|G|C|T|G|G|G|A|G|T|T|T|T|T|A|C|T|A|C|C|C|T|T|A|C|T|
Query 421 |T|A|A|A|C|C|G|A|G|A|C|A|T|C|T|T|T|T|A|A|A|G|C|A|C|T|A|T|T|A|A|T|T|T|T|T|G|G|G|G|A|A|C|T|T|A|A|T|G|C|G|G|C|A|
Subject 421 |T|A|A|A|C|C|G|A|G|A|C|A|T|C|T|T|T|T|A|A|A|G|C|A|C|T|A|T|T|A|A|T|T|T|T|T|G|G|G|G|A|A|C|T|T|A|A|T|G|C|G|G|C|A|
Query 481 |T|T|T|T|A|G|A|T|A|C|G|G|A|A|A|C|C|A|C|G|G|C|C|T|T|G|T|G|C|C|G|G|A|A|G|
Subject 481 |T|T|T|T|A|G|A|T|A|C|G|G|A|A|A|C|C|A|C|G|G|C|C|T|T|G|T|G|C|C|G|G|A|A|G|

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>cox20 is a new Cox20 

| Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|------------|--------------|------------|------------------|----------------|---------|----------|
| >cox20 | Cox20.2 | 98.129 | 588 | 587 | | 1016 |

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Query 6 |A|A|A|T|A|A|T|A|G|C|A|G|C|T|A|T|A|G|G|C|A|T|T|A|A|A|G|T|C|C|C|G|T|T|A|A|A|C|A|A|A|T|G|A|C|C|C|G|C|T|A|T|T|G|C|G|A|
Subject 1 |A|A|A|T|A|A|T|A|G|C|A|G|C|T|A|T|A|G|G|C|A|T|T|A|A|A|G|T|C|C|C|G|T|T|A|A|A|C|A|A|A|T|G|A|C|C|C|G|C|T|A|T|T|G|C|G|A|
Query 66 |C|T|G|C|C|G|A|A|G|A|T|A|G|C|G|C|C|A|A|T|C|G|A|A|A|T|G|G|T|G|C|C|C|A|G|T|A|G|G|G|C|-|G|A|A|G|A|C|G|C|T|-|C|C|C|T|G|
Subject 61 |C|T|G|C|C|G|A|A|G|A|T|A|G|C|G|C|C|A|A|T|C|G|A|A|A|T|G|G|T|G|C|C|C|A|G|T|A|G|G|G|C|A|G|A|A|G|A|C|G|C|T|C|C|C|T|G|
Query 124 |T|C|G|G|G|A|T|G|G|G|T|A|T|T|C|A|A|G|G|C|T|T|G|T|G|A|G|A|T|A|A|A|C|A|G|C|C|C|T|A|A|T|G|C|A|A|T|C|G|C|T|G|A|A|C|C|T|
Subject 121 |T|C|G|G|G|A|T|G|G|G|T|A|T|T|C|A|A|G|G|C|T|T|G|T|G|A|G|A|T|A|A|A|C|A|G|C|C|C|T|A|A|T|G|C|A|A|T|C|G|C|T|G|A|A|C|C|T|
Query 184 |G|C|A|A|A|G|A|G|G|G|A|C|A|T|T|A|C|G|C|C|G|T|A|A|T|T|A|A|A|T|T|G|G|G|G|C|T|G|T|T|A|G|G|T|A|A|T|A|T|G|A|A|G|T|G|G|
Subject 181 |G|C|A|A|A|G|A|G|G|G|A|C|A|T|T|A|C|G|C|C|G|T|A|A|T|T|A|A|A|T|T|G|G|G|G|C|T|G|T|T|A|G|G|T|A|A|T|A|T|G|A|A|G|T|G|G|
Query 244 |G|A|C|A|A|C|A|G|T|A|A|T|A|C|G|G|C|G|G|C|T|A|G|C|G|A|T|A|C|G|A|T|A|A|A|T|A|A|T|C|C|A|A|T|A|C|G|T|T|G|G|G|A|G|G|C|T|
Subject 241 |G|A|C|A|A|C|A|G|T|A|A|T|A|C|G|G|C|G|G|C|T|A|G|C|G|A|T|A|C|G|A|T|A|A|A|T|A|A|T|C|C|A|A|T|A|C|G|T|T|G|G|G|A|G|G|C|T|
Query 304 |A|T|A|G|A|A|A|A|T|C|G|C|T|T|C|A|G|C|A|T|A|T|A|A|G|C|A|G|C|G|A|T|A|A|A|G|C|T|A|A|A|C|G|C|C|A|A|A|A|A|C|G|T|C|A|A|C|
Subject 301 |A|T|A|G|A|A|A|A|T|C|G|C|T|T|C|A|G|C|A|T|A|T|A|A|G|C|A|G|C|G|A|T|A|A|A|G|C|T|A|A|A|C|G|C|C|A|A|A|A|A|C|G|T|C|A|A|C|
Query 364 |A|T|G|A|T|T|G|C|T|T|C|A|T|A|A|T|A|A|C|C|T|A|C|C|T|G|A|T|G|C|T|G|G|G|T|T|A|C|T|C|C|A|A|G|A|T|G|G|T|T|A|A|C|A|A|A|G|
Subject 361 |A|T|G|A|T|T|G|C|T|T|C|A|T|A|A|T|A|A|C|C|T|A|C|C|T|G|A|T|G|C|T|G|G|G|T|T|A|C|T|C|C|A|A|G|A|T|G|G|T|T|A|A|C|A|A|A|G|
Query 424 |A|A|G|G|A|T|A|A|A|T|T|A|G|C|A|A|T|A|T|A|T|A|C|A|A|T|G|A|T|G|C|C|T|G|C|G|T|A|C|A|T|C|A|A|A|C|A|A|G|G|A|A|T|C|G|T|A|
Subject 421 |A|A|G|G|A|T|A|A|A|T|T|A|G|C|A|A|T|A|T|A|T|A|C|A|A|T|G|A|T|G|C|C|T|G|C|G|T|A|C|A|T|C|A|A|A|C|A|A|G|G|A|A|T|C|G|T|A|
Query 484 |A|A|A|A|A|-|T|A|A|T|G|A|A|T|T|T|-|-|A|-|-|T|C|G|T|A|G|T|A|A|A|T|A|G|A|A|A|T|A|G|A|A|G|T|T|G|A|A|T|C|A|T|G|-|T|T|
Subject 481 |A|A|A|A|A|A|T|A|A|T|G|A|A|T|T|T|T|T|A|T|C|G|T|A|G|T|A|A|A|T|A|G|A|A|A|T|A|G|A|A|-|T|T|G|A|A|T|C|A|T|G|T|T|
Query 538 |A|A|C|T|T|T|A|C|T|G|C|C|C|C|C|T|G|C|A|T|G|T|T|T|A|T|A|T|T|T|T|T|A|G|G|C|T|C|T|T|A|A|A|A|A|
Subject 540 |A|A|C|T|T|T|A|C|T|G|C|C|C|C|C|T|G|C|A|T|G|T|T|T|A|T|A|T|T|T|T|T|A|G|G|C|T|C|T|T|A|A|A|A|A|

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>cox37 is a new Cox37 

| Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|------------|--------------|------------|------------------|----------------|---------|----------|
| >cox37 | Cox37.5 | 99.048 | 420 | 420 | | 752 |

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Query 1 |A|A|A|C|T|T|T|A|C|A|G|C|T|T|G|G|T|A|G|C|C|T|T|G|G|A|T|T|T|-|C|T|C|T|A|T|T|T|G|G|G|A|A|T|A|G|G|A|A|T|T|A|A|C|T|T|T|C|T|G|
Subject 1 |A|A|A|C|T|T|T|A|C|A|G|C|T|T|G|G|T|A|G|C|C|T|T|G|G|A|T|T|T|C|T|C|T|A|T|T|T|G|G|G|A|A|T|A|G|G|A|A|T|T|A|A|C|T|T|T|C|T|G|
Query 60 |T|T|C|A|T|T|A|C|T|T|C|G|C|A|T|A|T|A|T|T|T|T|T|C|T|C|C|A|A|T|T|G|A|A|G|T|T|A|T|C|G|C|C|A|C|G|G|G|G|T|T|A|T|C|A|G|T|T|C|
Subject 61 |T|T|C|A|T|T|A|C|T|T|C|G|C|A|T|A|T|A|T|T|T|T|T|C|T|C|C|A|A|T|T|G|A|A|G|T|T|A|T|C|G|C|C|A|C|G|G|G|G|T|T|A|T|C|A|G|T|T|C|
Query 120 |C|A|A|G|G|G|C|T|C|A|C|T|C|G|G|T|A|T|A|A|T|G|T|C|A|C|T|A|G|T|G|T|A|T|T|A|T|C|A|G|G|A|A|A|T|T|T|C|T|G|G|T|T|A|A|A|C|C|T|
Subject 121 |C|A|A|G|G|G|C|T|C|A|C|T|C|A|G|G|T|A|T|A|A|T|G|T|C|A|C|T|A|G|T|G|T|A|T|T|A|T|C|A|G|G|A|A|A|T|T|T|C|T|G|G|T|T|A|A|A|C|C|T|
Query 180 |T|T|C|A|A|G|G|A|G|G|T|-|A|A|A|T|G|A|A|G|C|T|T|T|A|G|A|T|T|A|A|A|A|G|C|T|C|C|C|A|G|A|T|A|A|A|C|T|T|A|A|A|G|A|G|G|G|G|T|T|
Subject 181 |T|T|C|A|A|G|G|A|G|G|T|A|A|A|T|G|A|A|G|C|T|T|T|A|G|A|T|T|A|A|A|A|G|C|T|C|C|C|A|G|A|T|A|A|A|C|T|T|A|A|A|G|A|G|G|G|G|T|T|
Query 239 |A|A|G|T|C|G|A|G|T|A|T|A|T|A|A|G|T|T|G|A|A|T|C|C|G|A|A|T|T|A|A|T|T|T|T|T|C|A|C|C|C|A|G|C|A|T|C|A|T|C|G|C|T|T|A|C|A|A|T|G|
Subject 241 |A|A|G|T|C|G|A|G|T|A|T|A|T|A|A|G|T|T|G|A|A|T|C|C|G|A|A|T|T|A|A|T|T|T|T|T|C|A|C|C|C|A|G|C|A|T|C|A|T|C|G|C|T|T|A|C|A|A|T|G|
Query 299 |G|C|G|A|G|G|T|C|A|A|C|A|T|T|A|A|A|A|C|C|A|T|G|C|G|A|C|A|A|A|A|T|A|C|T|T|T|C|A|A|C|C|A|A|G|G|C|T|T|C|T|C|G|T|C|G|C|A|A|T|
Subject 301 |G|C|G|A|G|G|T|C|A|A|C|A|T|T|A|A|A|A|C|C|A|T|G|C|G|A|C|A|A|A|A|T|A|C|T|T|T|C|A|A|C|C|A|A|G|G|C|T|T|C|T|C|G|T|C|G|C|A|A|T|
Query 359 |T|C|T|G|C|A|A|T|G|A|T|G|A|G|A|A|C|T|A|A|T|A|A|T|A|T|C|C|A|G|A|G|T|C|T|T|T|A|A|A|T|G|G|G|G|T|T|G|C|C|A|G|C|T|T|C|T|T|
Subject 361 |T|C|T|G|C|A|A|T|G|A|T|G|A|G|A|A|C|T|A|A|T|A|A|T|A|T|C|C|A|G|A|G|T|C|T|T|T|A|A|A|T|G|G|G|G|T|T|G|C|C|A|G|C|T|T|C|T|T|

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>cox51 is a new Cox51 

| Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|------------|--------------|------------|------------------|----------------|---------|----------|
| >cox51 | Cox51.9 | 99.209 | 632 | 632 | | 1140 |

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Query 1 |T|T|C|A|A|A|A|A|A|T|A|T|T|C|G|G|A|A|A|A|T|A|C|A|G|C|A|G|C|T|C|T|C|A|A|G|T|T|G|A|G|A|G|A|A|T|A|G|T|G|G|G|T|
Subject 1 |T|T|C|A|A|A|A|A|A|T|A|T|T|C|G|G|A|A|A|A|T|A|C|A|G|C|A|G|C|T|C|T|C|A|A|G|T|T|G|A|G|A|G|A|A|T|A|G|T|G|G|G|T|
Query 61 |T|A|A|T|T|T|T|T|C|A|T|A|A|T|C|T|T|C|G|T|A|C|G|A|T|A|A|T|T|T|A|A|G|T|A|A|T|T|G|T|G|A|G|T|G|A|G|T|G|C|C|G|G|C|A|
Subject 61 |T|A|A|T|T|T|T|T|C|A|T|A|A|T|C|T|T|C|G|T|A|C|G|A|T|A|A|T|T|T|A|A|G|T|A|A|T|T|G|T|G|A|G|T|G|A|G|T|G|C|C|G|G|C|A|
Query 121 |A|A|C|C|A|T|T|T|C|T|T|T|T|T|C|T|T|C|G|C|T|C|A|A|C|T|C|T|T|T|G|G|A|A|A|G|G|G|C|A|A|C|T|T|T|C|A|T|A|T|C|G|A|A|T|
Subject 121 |A|A|C|C|A|T|T|T|C|T|T|T|T|T|C|T|T|C|G|C|T|C|A|A|C|T|C|T|T|T|G|G|A|A|A|G|G|G|T|A|A|C|T|T|T|C|A|T|A|T|C|G|A|A|T|

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Query 181 GCCAAAAGGTGGCATTGCCCTAATTCACAGCCGGGAATCGTTCTTGAAATTCG
Subject 181 GCCAAAAGGTGGCATTGCCCTAATTCACAGCCGGGAATCGTTCTTGAAATTCG
Query 241 GCTGGCTAATTCCGCTTTATGGGCTCCAGTTTTTTTAAATTTATCAAAGTCGACT
Subject 241 GCTGGCTAATTCCGCTTTATGGGCTCCAGTTTTTTTAAATTTATCAAAGTCGACT
Query 301 ATCGCCCGGTAGCACCAACCATTCGAGCTTATCATCGAATTTTAGCAATAACACAT
Subject 301 ATCGCCCGGTAGCACCAACCATTCGAGCTTATCATCGAATTTTAGCAATAACACAT
Query 361 TAGCTTTTTAGCAGATACGTGTGAAATTTCCGCAATTTCTCGGGCAGTATAAGCT
Subject 361 TAGCTTTTTAGCAGATACGTGTGAAATTTCCGCAATTTCTCGGGCAGTATAAGCT
Query 421 ATGATTAAATAGTGACATATTTCACTTTGTTTTTATCGAGAAATTCCTTTCAAATTTT
Subject 421 ATGATTAAATAGTGACATATTTCACTTTGTTTTTATCGAGAAATTCCTTTCAAATTTT
Query 481 CCGCATACAAAACCTCCCGACTTATCCCGTCTCTATATAGAGAAATATAGCTCAT
Subject 481 CCGCATACAAAACCTCCCGACTTATCCCGTCTCTATATAGAGAAATATAGCTCAT
Query 541 AAATAGCAATAACCTTGAAAGCCCATCAGGCGTGCCCTTTTCAAGGCCCCCATTTGA
Subject 541 AAATAGCAATAACCTTGAAAGCCCATCAGGCGTGCCCTTTTCAAGGCCCCCATTTGA
Query 601 AACAGCTCCCGCATTTTGGCTTGAATCATTTT
Subject 601 AACAGCTCCCGCATTTTGGCTTGAATCATTTT
```

>cox56 is a new Cox56

| Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|------------|--------------|------------|------------------|----------------|---------|----------|
| >cox56 | Cox56.1 | 96.943 | 458 | 452 | | 760 |

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Query 1 CCCACAGCTACTGTTGCAATCAGAGCTAAGACTATGTTTTTCAATTAATAATTTAACT
Subject 1 CCCACAGCTACTGTTGCAATCAGAGCTAAGACTATGTTTTTCAATTAATAATTTAACT
Query 61 ACCTCTTGATCTGCCACAACCTTTCAAAACTCTAACTATTCATATAATCAGAGCCGGG
Subject 61 ACCTCTTGATCTACCTTTAACTTTCAAAACTCTAACTATTCATATAATCAGAGCCGGG
Query 121 AAGCTTCAGCCCTGCAGCGAGGAGCCATCTTAGCTTAAGCGCTGGCGCGGATTCAAA
Subject 121 AAGCTTCAGCCCTGCAGCGAGGAGCCATCTTAGCTTAAGCGCTGGCGCGGATTCAAA
Query 181 CTACTCAGAAATAATTCTTACTCTAAATTGCGCCTTAAATACTTAAGTAAGGATGA
Subject 181 CTACTCAGAAATAATTCTTACTCTAAATTGCGCCTTAAATACTTAAGTAAGGATGA
Query 241 AGAAAGAAAAATACGGGGTTAAACTTTAGGCTTGCTCTATCGCTAATCAGTATGA
Subject 241 AGAA-GAAAAATACGGGGTTAAACTTTAGGCTTGCTCTATCGCTAATCAGTATGA
Query 301 TACCTTATCTAGTATAGTAGTGCTAGTAGTGACAAATTTAGCCATGATACCTGGGA
Subject 299 TACCTTATCTAGTATAGTAGTGCTAGTAGTGAC-AAATTTAGCCATGAT--TGGGA
Query 360 AAAAAATATGAGGTGACTTGTGACAGGGTTGTTACTCCACCCGAAATTTCTAAG-GG
Subject 355 AAAAAATATGAGGTGACTTGTGACAGGGTTGTTACTCCACCCGAAATTTCTAAGAGG
Query 419 ACAACCATGACGTCCAAGCTGGTCAATTTT-GCGTTGGG
Subject 415 ACAACCATGACGTCCAAGCTGGTCAATTTT-CGCGTTGGG
```

>cox57 is a new Cox57

| Query name | Subject name | % identity | Alignment Length | Subject Length | E value | Bitscore |
|------------|--------------|------------|------------------|----------------|---------|----------|
| >cox57 | Cox57.9 | 99.293 | 566 | 566 | | 1024 |

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Query 1 AAAACCTGGACCGAGCACAAACTTGAAACCGAGAAATGATATTGACTTAGCCCC
Subject 1 AAAACCTGGACCGAGCACAAACTTGAAACCGAGAAATGATATTGACTTAGCCCC
Query 61 CAAGCACTATAAGCCCCCTGGGCGGCCAGATAGCTCAGTCGGGTAGAGCAGAGGA
Subject 61 CAAGCACTATAAGCCCCCTGGGCGGCCAGATAGCTCAGTCGGGTAGAGCAGAGGA
Query 121 ATCCTCGTGTCGGCAGTTCGATTCTGCTCTGGGCCACCATGAAATCAAACAATTT
Subject 121 ATCCTCGTGTCGGCAGTTCGATTCTGCTCTGGGCCACCATGAAATCAAACAATTT
Query 181 TTTACCAGTTGATCAAAATTTGACCTTGTGGGCGTTTTGTCTAAACGACAACCTGT
Subject 181 TTTACCAGTTGATCAAAATTTGACCTTGTGGGCGTTTTGTCTAAACGACAACCTGT
Query 241 CGCTTCACCAAACTTAAACGTTGGACTACTATTACTTGTTCGGGATAACAAGCTTT
Subject 241 CGCTTCACCAAACTTAAACGTTGGACTACTATTACTTGTTCGGGATAACAAGCTTT
Query 301 CGACTTAATTAGGATTATCTCTATTTAAATTAACCGATTAAATTAAGGATATCT
Subject 301 CGACTTAATTAGGATTATCTCTATTTAAATTAACCGATTAAATTAAGGATATCT
Query 361 CTGATTAGCAAAATTTAACATTTCAAAATAATACTTATAATCTATTTCCAAATC
Subject 361 CTGATTAGCAAAATTTAACATTTCAAAATAATACTTATAATCTATTTCCAAATC
Query 421 ACTTGATATTTAAGTCTAAACAGATGATAAAAAATTAATTTAAAAATCACTAA
Subject 421 ACTTGATATTTAAGTCTAAACAGATGATAAAAAATTAATTTAAAAATCACTAA
Query 481 ACAAAATTATTAATAATTGATTTTAAAAATAAATTTTACAACCTAGCACTAAACGAG
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>cox61 is a new Cox61

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