

# Pham 86898



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 86898 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86898 has 20 members, 4 are drafts.

Phages represented in each track:

- Track 1 : RoyalG\_44, BirksAndSocks\_48, SteveFrench\_43, Diabla\_47
- Track 2 : BigShaq\_43
- Track 3 : Chelms\_43
- Track 4 : PierreThree\_43
- Track 5 : Dakiti\_44
- Track 6 : Barbochs\_45
- Track 7 : FelixAlejandro\_49, Boneham\_48, Butterball\_48
- Track 8 : Breezic\_44, Poland\_51, Msay19\_49
- Track 9 : PokyPuppy\_42, Linetti\_44
- Track 10 : BenoitCattle\_45
- Track 11 : Sombrero\_44
- Track 12 : Adgers\_45

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 9, it was called in 12 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers\_45, Barbochs\_45, BenoitCattle\_45, BirksAndSocks\_48, Boneham\_48, Breezic\_44, Butterball\_48, Chelms\_43, Diabla\_47, FelixAlejandro\_49, Msay19\_49, Poland\_51, RoyalG\_44, Sombrero\_44, SteveFrench\_43,

Genes that have the "Most Annotated" start but do not call it:

- BigShaq\_43, Dakiti\_44, Linetti\_44, PierreThree\_43, PokyPuppy\_42,

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 8:

- Found in 7 of 20 ( 35.0% ) of genes in pham
- Manual Annotations of this start: 4 of 16

- Called 71.4% of time when present
- Phage (with cluster) where this start called: BigShaq\_43 (CS2), Dakiti\_44 (CS2), Linetti\_44 (CS2), PierreThree\_43 (CS2), PokyPuppy\_42 (CS2),

Start 9:

- Found in 20 of 20 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 16
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Adgers\_45 (CS2), Barbochs\_45 (CS2), BenoitCattle\_45 (CS2), BirksAndSocks\_48 (CS2), Boneham\_48 (CS2), Breezic\_44 (CS2), Butterball\_48 (CS2), Chelms\_43 (CS2), Diabla\_47 (CS2), FelixAlejandro\_49 (CS2), Msay19\_49 (CS2), Poland\_51 (CS2), RoyalG\_44 (CS2), Sombrero\_44 (CS2), SteveFrench\_43 (CS2),

### **Summary by clusters:**

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:

- Start number 8 was manually annotated 4 times for cluster CS2.
- Start number 9 was manually annotated 12 times for cluster CS2.

### **Gene Information:**

Gene: Adgers\_45 Start: 43820, Stop: 43440, Start Num: 9

Candidate Starts for Adgers\_45:

(5, 43904), (Start: 9 @43820 has 12 MA's), (11, 43790), (12, 43736), (14, 43652), (15, 43613), (16, 43565),

Gene: Barbochs\_45 Start: 43659, Stop: 43279, Start Num: 9

Candidate Starts for Barbochs\_45:

(2, 43758), (Start: 9 @43659 has 12 MA's), (11, 43629), (12, 43575), (14, 43491), (15, 43452), (16, 43404),

Gene: BenoitCattle\_45 Start: 43764, Stop: 43384, Start Num: 9

Candidate Starts for BenoitCattle\_45:

(4, 43947), (Start: 8 @43770 has 4 MA's), (Start: 9 @43764 has 12 MA's), (11, 43734), (13, 43665), (14, 43596), (15, 43557), (16, 43509),

Gene: BigShaq\_43 Start: 43775, Stop: 43389, Start Num: 8

Candidate Starts for BigShaq\_43:

(4, 43952), (Start: 8 @43775 has 4 MA's), (Start: 9 @43769 has 12 MA's), (11, 43739), (13, 43670), (14, 43601), (15, 43562), (16, 43514),

Gene: BirksAndSocks\_48 Start: 45684, Stop: 45304, Start Num: 9

Candidate Starts for BirksAndSocks\_48:

(1, 45882), (5, 45768), (7, 45696), (Start: 9 @45684 has 12 MA's), (14, 45516), (15, 45477), (16, 45429), (17, 45390),

Gene: Boneham\_48 Start: 45683, Stop: 45303, Start Num: 9

Candidate Starts for Boneham\_48:

(2, 45782), (Start: 9 @45683 has 12 MA's), (11, 45653), (12, 45599), (14, 45515), (15, 45476), (16, 45428),

Gene: Breezic\_44 Start: 43672, Stop: 43292, Start Num: 9

Candidate Starts for Breezic\_44:

(2, 43771), (3, 43762), (Start: 9 @43672 has 12 MA's), (11, 43642), (12, 43588), (14, 43504), (15, 43465), (16, 43417),

Gene: Butterball\_48 Start: 45683, Stop: 45303, Start Num: 9

Candidate Starts for Butterball\_48:

(2, 45782), (Start: 9 @45683 has 12 MA's), (11, 45653), (12, 45599), (14, 45515), (15, 45476), (16, 45428),

Gene: Chelms\_43 Start: 43769, Stop: 43392, Start Num: 9

Candidate Starts for Chelms\_43:

(4, 43952), (Start: 8 @43775 has 4 MA's), (Start: 9 @43769 has 12 MA's), (14, 43604), (15, 43565), (16, 43517),

Gene: Dakiti\_44 Start: 44643, Stop: 44260, Start Num: 8

Candidate Starts for Dakiti\_44:

(4, 44820), (Start: 8 @44643 has 4 MA's), (Start: 9 @44637 has 12 MA's), (14, 44472), (15, 44433), (16, 44385),

Gene: Diabla\_47 Start: 45518, Stop: 45138, Start Num: 9

Candidate Starts for Diabla\_47:

(1, 45716), (5, 45602), (7, 45530), (Start: 9 @45518 has 12 MA's), (14, 45350), (15, 45311), (16, 45263), (17, 45224),

Gene: FelixAlejandro\_49 Start: 45881, Stop: 45501, Start Num: 9

Candidate Starts for FelixAlejandro\_49:

(2, 45980), (Start: 9 @45881 has 12 MA's), (11, 45851), (12, 45797), (14, 45713), (15, 45674), (16, 45626),

Gene: Linetti\_44 Start: 44784, Stop: 44386, Start Num: 8

Candidate Starts for Linetti\_44:

(Start: 8 @44784 has 4 MA's), (Start: 9 @44778 has 12 MA's), (11, 44748), (14, 44610), (15, 44571), (16, 44523), (18, 44436),

Gene: Msay19\_49 Start: 45872, Stop: 45492, Start Num: 9

Candidate Starts for Msay19\_49:

(2, 45971), (3, 45962), (Start: 9 @45872 has 12 MA's), (11, 45842), (12, 45788), (14, 45704), (15, 45665), (16, 45617),

Gene: PierreThree\_43 Start: 44652, Stop: 44257, Start Num: 8

Candidate Starts for PierreThree\_43:

(4, 44829), (Start: 8 @44652 has 4 MA's), (Start: 9 @44646 has 12 MA's), (14, 44481), (15, 44442), (16, 44394), (17, 44355), (18, 44307),

Gene: PokyPuppy\_42 Start: 44595, Stop: 44197, Start Num: 8

Candidate Starts for PokyPuppy\_42:

(Start: 8 @44595 has 4 MA's), (Start: 9 @44589 has 12 MA's), (11, 44559), (14, 44421), (15, 44382), (16, 44334), (18, 44247),

Gene: Poland\_51 Start: 45851, Stop: 45471, Start Num: 9

Candidate Starts for Poland\_51:

(2, 45950), (3, 45941), (Start: 9 @45851 has 12 MA's), (11, 45821), (12, 45767), (14, 45683), (15, 45644), (16, 45596),

Gene: RoyalG\_44 Start: 44130, Stop: 43750, Start Num: 9

Candidate Starts for RoyalG\_44:

(1, 44328), (5, 44214), (7, 44142), (Start: 9 @44130 has 12 MA's), (14, 43962), (15, 43923), (16, 43875), (17, 43836),

Gene: Sombrero\_44 Start: 43665, Stop: 43288, Start Num: 9

Candidate Starts for Sombrero\_44:

(1, 43863), (5, 43749), (6, 43728), (7, 43677), (Start: 9 @43665 has 12 MA's), (10, 43656), (14, 43500), (15, 43461), (16, 43413),

Gene: SteveFrench\_43 Start: 44370, Stop: 43990, Start Num: 9

Candidate Starts for SteveFrench\_43:

(1, 44568), (5, 44454), (7, 44382), (Start: 9 @44370 has 12 MA's), (14, 44202), (15, 44163), (16, 44115), (17, 44076),