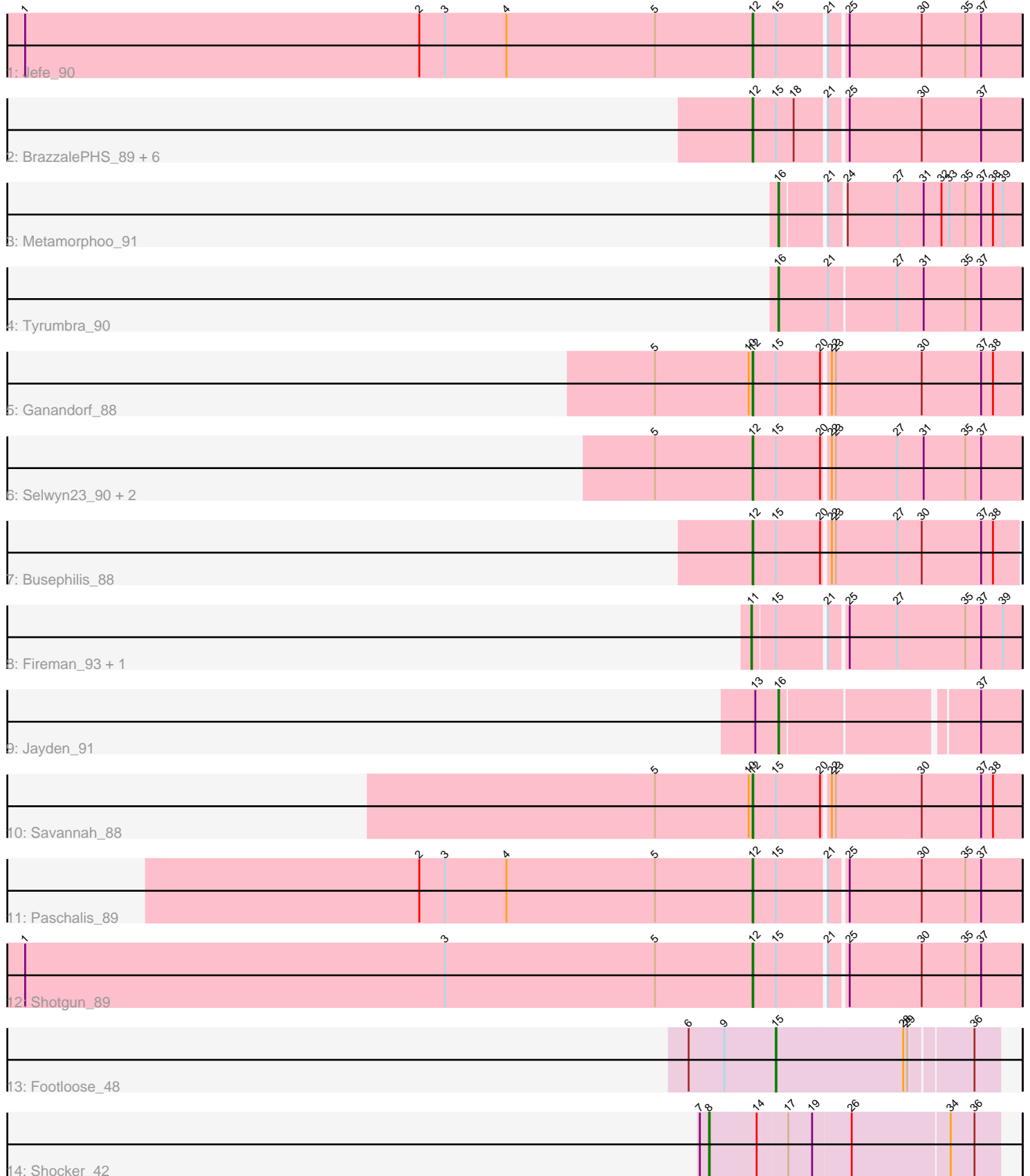


Pham 86664



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 86664 Report

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

Pham number 86664 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Jefe_90
- Track 2 : BrazzalePHS_89, Cranjis_90, Scumberland_91, Kowalski_89, Ramiel05_89, Onika_89, Hermeonysus_89
- Track 3 : Metamorphoo_91
- Track 4 : Tyrumbra_90
- Track 5 : Ganandorf_88
- Track 6 : Selwyn23_90, Pulchra_90, Crisis_89
- Track 7 : Busephilis_88
- Track 8 : Fireman_93, RobsFeet_96
- Track 9 : Jayden_91
- Track 10 : Savannah_88
- Track 11 : Paschalis_89
- Track 12 : Shotgun_89
- Track 13 : Footloose_48
- Track 14 : Shocker_42

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

The start number called the most often in the published annotations is 12, it was called in 15 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BrazzalePHS_89, Busephilis_88, Cranjis_90, Crisis_89, Ganandorf_88, Hermeonysus_89, Jefe_90, Kowalski_89, Onika_89, Paschalis_89, Pulchra_90, Ramiel05_89, Savannah_88, Scumberland_91, Selwyn23_90, Shotgun_89,

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

-

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

- Fireman_93, Footloose_48, Jayden_91, Metamorphoo_91, RobsFeet_96, Shocker_42, Tyrumbra_90,

Summary by start number:

Start 8:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shocker_42 (singleton),

Start 11:

- Found in 2 of 23 (8.7%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fireman_93 (EC), RobsFeet_96 (EC),

Start 12:

- Found in 16 of 23 (69.6%) of genes in pham
- Manual Annotations of this start: 15 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrazzalePHS_89 (EC), Busephilis_88 (EC), Cranjis_90 (EC), Crisis_89 (EC), Ganandorf_88 (EC), Hermeonysus_89 (EC), Jefe_90 (EC), Kowalski_89 (EC), Onika_89 (EC), Paschalis_89 (EC), Pulchra_90 (EC), Ramiel05_89 (EC), Savannah_88 (EC), Scumberland_91 (EC), Selwyn23_90 (EC), Shotgun_89 (EC),

Start 15:

- Found in 19 of 23 (82.6%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Footloose_48 (singleton),

Start 16:

- Found in 3 of 23 (13.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jayden_91 (EC), Metamorphoo_91 (EC), Tyumbra_90 (EC),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, EC,

Info for manual annotations of cluster EC:

- Start number 11 was manually annotated 2 times for cluster EC.
- Start number 12 was manually annotated 15 times for cluster EC.
- Start number 16 was manually annotated 3 times for cluster EC.

Gene Information:

Gene: BrazzalePHS_89 Start: 52595, Stop: 52975, Start Num: 12

Candidate Starts for BrazzalePHS_89:

(Start: 12 @52595 has 15 MA's), (Start: 15 @52628 has 1 MA's), (18, 52652), (21, 52694), (25, 52718), (30, 52823), (37, 52913),

Gene: Busephilis_88 Start: 52152, Stop: 52535, Start Num: 12

Candidate Starts for Busephilis_88:

(Start: 12 @52152 has 15 MA's), (Start: 15 @52185 has 1 MA's), (20, 52248), (22, 52257), (23, 52263), (27, 52356), (30, 52389), (37, 52479), (38, 52497),

Gene: Cranjis_90 Start: 52562, Stop: 52942, Start Num: 12

Candidate Starts for Cranjis_90:

(Start: 12 @52562 has 15 MA's), (Start: 15 @52595 has 1 MA's), (18, 52619), (21, 52661), (25, 52685), (30, 52790), (37, 52880),

Gene: Crisis_89 Start: 52153, Stop: 52542, Start Num: 12

Candidate Starts for Crisis_89:

(5, 52006), (Start: 12 @52153 has 15 MA's), (Start: 15 @52186 has 1 MA's), (20, 52249), (22, 52258), (23, 52264), (27, 52357), (31, 52396), (35, 52456), (37, 52480),

Gene: Fireman_93 Start: 53853, Stop: 54233, Start Num: 11

Candidate Starts for Fireman_93:

(Start: 11 @53853 has 2 MA's), (Start: 15 @53886 has 1 MA's), (21, 53952), (25, 53976), (27, 54048), (35, 54147), (37, 54171), (39, 54204),

Gene: Footloose_48 Start: 28569, Stop: 28883, Start Num: 15

Candidate Starts for Footloose_48:

(6, 28437), (9, 28491), (Start: 15 @28569 has 1 MA's), (28, 28755), (29, 28761), (36, 28845),

Gene: Ganandorf_88 Start: 52107, Stop: 52496, Start Num: 12

Candidate Starts for Ganandorf_88:

(5, 51960), (10, 52101), (Start: 12 @52107 has 15 MA's), (Start: 15 @52140 has 1 MA's), (20, 52203), (22, 52212), (23, 52218), (30, 52344), (37, 52434), (38, 52452),

Gene: Hermeonysus_89 Start: 52283, Stop: 52663, Start Num: 12

Candidate Starts for Hermeonysus_89:

(Start: 12 @52283 has 15 MA's), (Start: 15 @52316 has 1 MA's), (18, 52340), (21, 52382), (25, 52406), (30, 52511), (37, 52601),

Gene: Jayden_91 Start: 52601, Stop: 52936, Start Num: 16

Candidate Starts for Jayden_91:

(13, 52568), (Start: 16 @52601 has 3 MA's), (37, 52874),

Gene: Jefe_90 Start: 52558, Stop: 52938, Start Num: 12

Candidate Starts for Jefe_90:

(1, 51457), (2, 52054), (3, 52093), (4, 52186), (5, 52411), (Start: 12 @52558 has 15 MA's), (Start: 15 @52591 has 1 MA's), (21, 52657), (25, 52681), (30, 52786), (35, 52852), (37, 52876),

Gene: Kowalski_89 Start: 52590, Stop: 52970, Start Num: 12

Candidate Starts for Kowalski_89:

(Start: 12 @52590 has 15 MA's), (Start: 15 @52623 has 1 MA's), (18, 52647), (21, 52689), (25, 52713), (30, 52818), (37, 52908),

Gene: Metamorphoo_91 Start: 53388, Stop: 53729, Start Num: 16

Candidate Starts for Metamorphoo_91:

(Start: 16 @53388 has 3 MA's), (21, 53448), (24, 53469), (27, 53544), (31, 53583), (32, 53607), (33, 53619), (35, 53643), (37, 53667), (38, 53685), (39, 53700),

Gene: Onika_89 Start: 52561, Stop: 52941, Start Num: 12

Candidate Starts for Onika_89:

(Start: 12 @52561 has 15 MA's), (Start: 15 @52594 has 1 MA's), (18, 52618), (21, 52660), (25, 52684), (30, 52789), (37, 52879),

Gene: Paschalis_89 Start: 52368, Stop: 52748, Start Num: 12

Candidate Starts for Paschalis_89:

(2, 51864), (3, 51903), (4, 51996), (5, 52221), (Start: 12 @52368 has 15 MA's), (Start: 15 @52401 has 1 MA's), (21, 52467), (25, 52491), (30, 52596), (35, 52662), (37, 52686),

Gene: Pulchra_90 Start: 52478, Stop: 52867, Start Num: 12

Candidate Starts for Pulchra_90:

(5, 52331), (Start: 12 @52478 has 15 MA's), (Start: 15 @52511 has 1 MA's), (20, 52574), (22, 52583), (23, 52589), (27, 52682), (31, 52721), (35, 52781), (37, 52805),

Gene: Ramiel05_89 Start: 52590, Stop: 52970, Start Num: 12

Candidate Starts for Ramiel05_89:

(Start: 12 @52590 has 15 MA's), (Start: 15 @52623 has 1 MA's), (18, 52647), (21, 52689), (25, 52713), (30, 52818), (37, 52908),

Gene: RobsFeet_96 Start: 53463, Stop: 53843, Start Num: 11

Candidate Starts for RobsFeet_96:

(Start: 11 @53463 has 2 MA's), (Start: 15 @53496 has 1 MA's), (21, 53562), (25, 53586), (27, 53658), (35, 53757), (37, 53781), (39, 53814),

Gene: Savannah_88 Start: 52562, Stop: 52951, Start Num: 12

Candidate Starts for Savannah_88:

(5, 52415), (10, 52556), (Start: 12 @52562 has 15 MA's), (Start: 15 @52595 has 1 MA's), (20, 52658), (22, 52667), (23, 52673), (30, 52799), (37, 52889), (38, 52907),

Gene: Scumberland_91 Start: 52616, Stop: 52996, Start Num: 12

Candidate Starts for Scumberland_91:

(Start: 12 @52616 has 15 MA's), (Start: 15 @52649 has 1 MA's), (18, 52673), (21, 52715), (25, 52739), (30, 52844), (37, 52934),

Gene: Selwyn23_90 Start: 52371, Stop: 52760, Start Num: 12

Candidate Starts for Selwyn23_90:

(5, 52224), (Start: 12 @52371 has 15 MA's), (Start: 15 @52404 has 1 MA's), (20, 52467), (22, 52476), (23, 52482), (27, 52575), (31, 52614), (35, 52674), (37, 52698),

Gene: Shocker_42 Start: 31205, Stop: 30795, Start Num: 8

Candidate Starts for Shocker_42:

(7, 31217), (Start: 8 @31205 has 1 MA's), (14, 31139), (17, 31097), (19, 31064), (26, 31007), (34, 30869), (36, 30833),

Gene: Shotgun_89 Start: 52092, Stop: 52472, Start Num: 12

Candidate Starts for Shotgun_89:

(1, 50991), (3, 51627), (5, 51945), (Start: 12 @52092 has 15 MA's), (Start: 15 @52125 has 1 MA's), (21, 52191), (25, 52215), (30, 52320), (35, 52386), (37, 52410),

Gene: Tyrumbra_90 Start: 53339, Stop: 53695, Start Num: 16

Candidate Starts for Tyrumbra_90:

(Start: 16 @53339 has 3 MA's), (21, 53411), (27, 53510), (31, 53549), (35, 53609), (37, 53633),