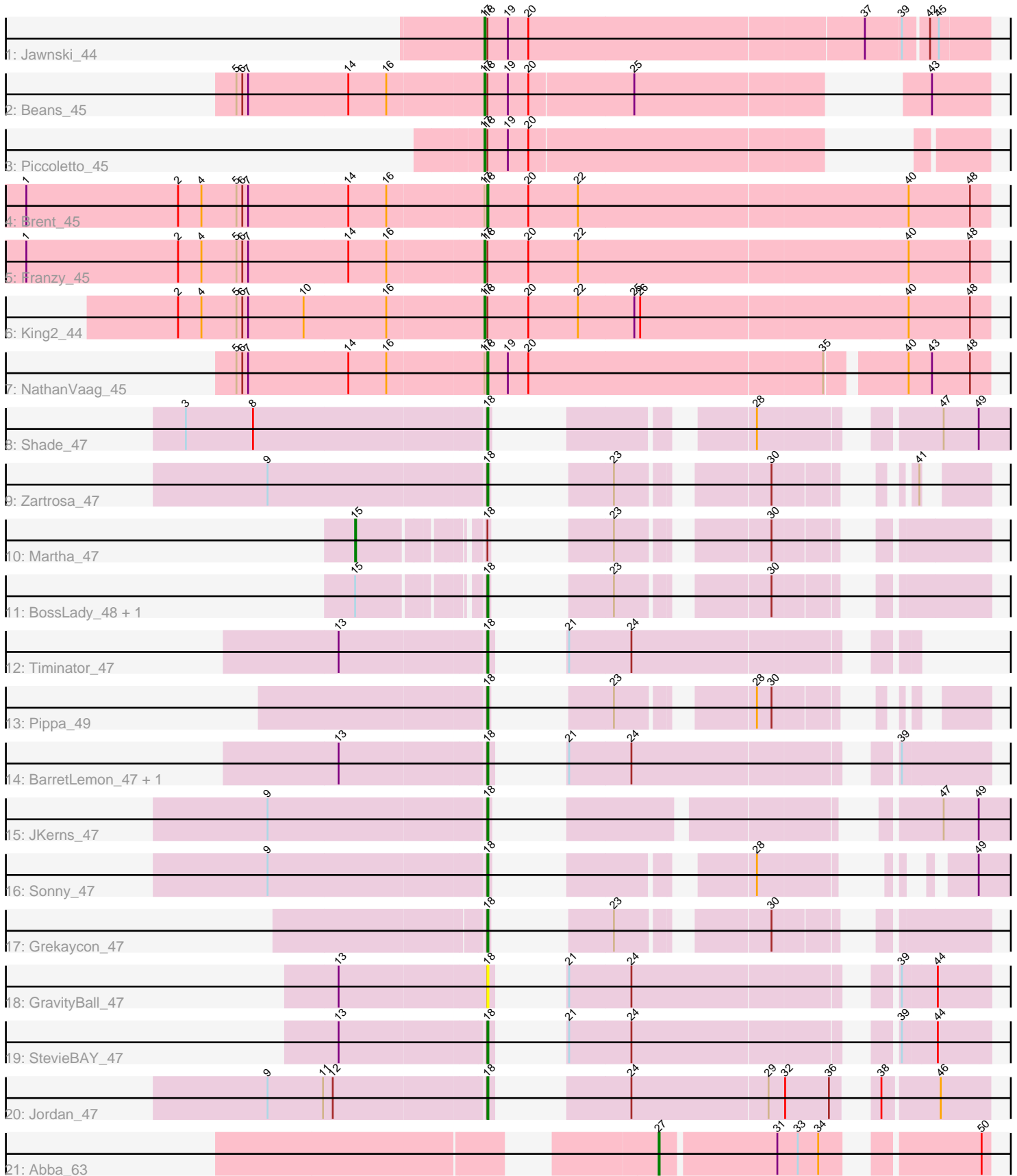


Pham 171741



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 171741 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171741 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Jawnski\_44
- Track 2 : Beans\_45
- Track 3 : Piccoletto\_45
- Track 4 : Brent\_45
- Track 5 : Franzy\_45
- Track 6 : King2\_44
- Track 7 : NathanVaag\_45
- Track 8 : Shade\_47
- Track 9 : Zartrosa\_47
- Track 10 : Martha\_47
- Track 11 : BossLady\_48, TaeYoung\_48
- Track 12 : Timinator\_47
- Track 13 : Pippa\_49
- Track 14 : BarretLemon\_47, LeeroyJ\_47
- Track 15 : JKerns\_47
- Track 16 : Sonny\_47
- Track 17 : Grekaycon\_47
- Track 18 : GravityBall\_47
- Track 19 : StevieBAY\_47
- Track 20 : Jordan\_47
- Track 21 : Abba\_63

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

The start number called the most often in the published annotations is 18, it was called in 15 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon\_47, BossLady\_48, Brent\_45, GravityBall\_47, Grekaycon\_47, JKerns\_47, Jordan\_47, LeeroyJ\_47, NathanVaag\_45, Pippa\_49, Shade\_47, Sonny\_47, StevieBAY\_47, TaeYoung\_48, Timinator\_47, Zartrosa\_47,

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

- Beans\_45, Franzy\_45, Jawnski\_44, King2\_44, Martha\_47, Piccoletto\_45,

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

- Abba\_63,

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

Start 15:

- Found in 3 of 23 ( 13.0% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Martha\_47 (AO2),

Start 17:

- Found in 7 of 23 ( 30.4% ) of genes in pham
- Manual Annotations of this start: 5 of 22
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Beans\_45 (AO1), Franzy\_45 (AO1), Jawnski\_44 (AO1), King2\_44 (AO1), Piccoletto\_45 (AO1),

Start 18:

- Found in 22 of 23 ( 95.7% ) of genes in pham
- Manual Annotations of this start: 15 of 22
- Called 72.7% of time when present
- Phage (with cluster) where this start called: BarretLemon\_47 (AO2), BossLady\_48 (AO2), Brent\_45 (AO1), GravityBall\_47 (AO2), Grekaycon\_47 (AO2), JKerns\_47 (AO2), Jordan\_47 (AO2), LeeroyJ\_47 (AO2), NathanVaag\_45 (AO1), Pippa\_49 (AO2), Shade\_47 (AO2), Sonny\_47 (AO2), StevieBAY\_47 (AO2), TaeYoung\_48 (AO2), Timinator\_47 (AO2), Zartrosa\_47 (AO2),

Start 27:

- 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: Abba\_63 (AO3),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AO3, AO2, AO1,

Info for manual annotations of cluster AO1:

- Start number 17 was manually annotated 5 times for cluster AO1.
- Start number 18 was manually annotated 2 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 15 was manually annotated 1 time for cluster AO2.
- Start number 18 was manually annotated 13 times for cluster AO2.

Info for manual annotations of cluster AO3:

- Start number 27 was manually annotated 1 time for cluster AO3.

### **Gene Information:**

Gene: Abba\_63 Start: 40699, Stop: 40992, Start Num: 27

Candidate Starts for Abba\_63:

(Start: 27 @40699 has 1 MA's), (31, 40813), (33, 40834), (34, 40855), (50, 40984),

Gene: BarretLemon\_47 Start: 36189, Stop: 36578, Start Num: 18

Candidate Starts for BarretLemon\_47:

(13, 36045), (Start: 18 @36189 has 15 MA's), (21, 36198), (24, 36261), (39, 36492),

Gene: Beans\_45 Start: 35986, Stop: 36414, Start Num: 17

Candidate Starts for Beans\_45:

(5, 35737), (6, 35743), (7, 35749), (14, 35851), (16, 35890), (Start: 17 @35986 has 5 MA's), (Start: 18 @35989 has 15 MA's), (19, 36010), (20, 36031), (25, 36136), (43, 36355),

Gene: BossLady\_48 Start: 36316, Stop: 36657, Start Num: 18

Candidate Starts for BossLady\_48:

(Start: 15 @36211 has 1 MA's), (Start: 18 @36316 has 15 MA's), (23, 36364), (30, 36490),

Gene: Brent\_45 Start: 36162, Stop: 36671, Start Num: 18

Candidate Starts for Brent\_45:

(1, 35694), (2, 35850), (4, 35874), (5, 35910), (6, 35916), (7, 35922), (14, 36024), (16, 36063), (Start: 17 @36159 has 5 MA's), (Start: 18 @36162 has 15 MA's), (20, 36204), (22, 36255), (40, 36588), (48, 36651),

Gene: Franzy\_45 Start: 36175, Stop: 36687, Start Num: 17

Candidate Starts for Franzy\_45:

(1, 35710), (2, 35866), (4, 35890), (5, 35926), (6, 35932), (7, 35938), (14, 36040), (16, 36079), (Start: 17 @36175 has 5 MA's), (Start: 18 @36178 has 15 MA's), (20, 36220), (22, 36271), (40, 36604), (48, 36667),

Gene: GravityBall\_47 Start: 36285, Stop: 36674, Start Num: 18

Candidate Starts for GravityBall\_47:

(13, 36138), (Start: 18 @36285 has 15 MA's), (21, 36294), (24, 36357), (39, 36588), (44, 36621),

Gene: Grekaycon\_47 Start: 36212, Stop: 36553, Start Num: 18

Candidate Starts for Grekaycon\_47:

(Start: 18 @36212 has 15 MA's), (23, 36260), (30, 36386),

Gene: JKerns\_47 Start: 36354, Stop: 36812, Start Num: 18

Candidate Starts for JKerns\_47:

(9, 36138), (Start: 18 @36354 has 15 MA's), (47, 36666), (49, 36702),

Gene: Jawnski\_44 Start: 35695, Stop: 36195, Start Num: 17

Candidate Starts for Jawnski\_44:

(Start: 17 @35695 has 5 MA's), (Start: 18 @35698 has 15 MA's), (19, 35719), (20, 35740), (37, 36076), (39, 36112), (42, 36136), (45, 36145),

Gene: Jordan\_47 Start: 36244, Stop: 36639, Start Num: 18

Candidate Starts for Jordan\_47:

(9, 36028), (11, 36085), (12, 36094), (Start: 18 @36244 has 15 MA's), (24, 36316), (29, 36454), (32, 36469), (36, 36514), (38, 36535), (46, 36589),

Gene: King2\_44 Start: 36006, Stop: 36518, Start Num: 17

Candidate Starts for King2\_44:

(2, 35694), (4, 35718), (5, 35754), (6, 35760), (7, 35766), (10, 35823), (16, 35907), (Start: 17 @36006 has 5 MA's), (Start: 18 @36009 has 15 MA's), (20, 36051), (22, 36102), (25, 36159), (26, 36165), (40, 36435), (48, 36498),

Gene: LeeroyJ\_47 Start: 36218, Stop: 36607, Start Num: 18

Candidate Starts for LeeroyJ\_47:

(13, 36074), (Start: 18 @36218 has 15 MA's), (21, 36227), (24, 36290), (39, 36521),

Gene: Martha\_47 Start: 36224, Stop: 36670, Start Num: 15

Candidate Starts for Martha\_47:

(Start: 15 @36224 has 1 MA's), (Start: 18 @36329 has 15 MA's), (23, 36377), (30, 36503),

Gene: NathanVaag\_45 Start: 35939, Stop: 36430, Start Num: 18

Candidate Starts for NathanVaag\_45:

(5, 35687), (6, 35693), (7, 35699), (14, 35801), (16, 35840), (Start: 17 @35936 has 5 MA's), (Start: 18 @35939 has 15 MA's), (19, 35960), (20, 35981), (35, 36278), (40, 36347), (43, 36371), (48, 36410),

Gene: Piccoletto\_45 Start: 36083, Stop: 36493, Start Num: 17

Candidate Starts for Piccoletto\_45:

(Start: 17 @36083 has 5 MA's), (Start: 18 @36086 has 15 MA's), (19, 36107), (20, 36128),

Gene: Pippa\_49 Start: 36611, Stop: 36919, Start Num: 18

Candidate Starts for Pippa\_49:

(Start: 18 @36611 has 15 MA's), (23, 36659), (28, 36770), (30, 36785),

Gene: Shade\_47 Start: 36112, Stop: 36564, Start Num: 18

Candidate Starts for Shade\_47:

(3, 35812), (8, 35881), (Start: 18 @36112 has 15 MA's), (28, 36271), (47, 36418), (49, 36454),

Gene: Sonny\_47 Start: 36253, Stop: 36651, Start Num: 18

Candidate Starts for Sonny\_47:

(9, 36037), (Start: 18 @36253 has 15 MA's), (28, 36412), (49, 36541),

Gene: StevieBAY\_47 Start: 36282, Stop: 36671, Start Num: 18

Candidate Starts for StevieBAY\_47:

(13, 36138), (Start: 18 @36282 has 15 MA's), (21, 36291), (24, 36354), (39, 36585), (44, 36618),

Gene: TaeYoung\_48 Start: 36284, Stop: 36625, Start Num: 18

Candidate Starts for TaeYoung\_48:

(Start: 15 @36179 has 1 MA's), (Start: 18 @36284 has 15 MA's), (23, 36332), (30, 36458),

Gene: Timinator\_47 Start: 36218, Stop: 36538, Start Num: 18

Candidate Starts for Timinator\_47:

(13, 36074), (Start: 18 @36218 has 15 MA's), (21, 36227), (24, 36290),

Gene: Zartrosa\_47 Start: 36307, Stop: 36615, Start Num: 18

Candidate Starts for Zartrosa\_47:

(9, 36091), (Start: 18 @36307 has 15 MA's), (23, 36355), (30, 36481), (41, 36565),