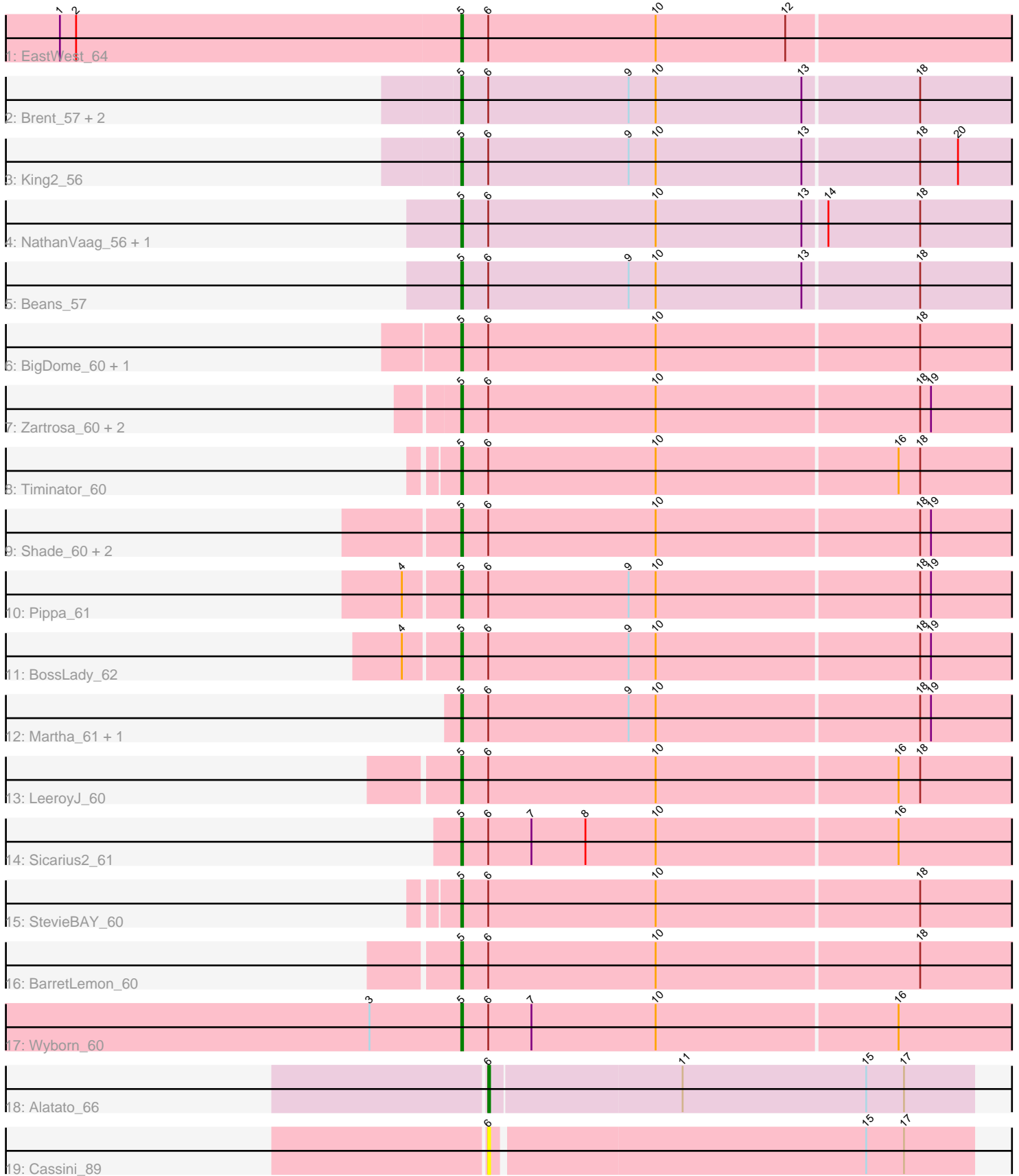


Pham 311899



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 311899 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311899 has 28 members, 2 are drafts.

Phages represented in each track:

- Track 1 : EastWest\_64
- Track 2 : Brent\_57, Jawnski\_56, Franzy\_56
- Track 3 : King2\_56
- Track 4 : NathanVaag\_56, Piccoletto\_57
- Track 5 : Beans\_57
- Track 6 : BigDome\_60, GravityBall\_60
- Track 7 : Zartrosa\_60, Sonny\_59, Grekaycon\_61
- Track 8 : Timinator\_60
- Track 9 : Shade\_60, JKerns\_60, Jordan\_60
- Track 10 : Pippa\_61
- Track 11 : BossLady\_62
- Track 12 : Martha\_61, TaeYoung\_62
- Track 13 : LeeroyJ\_60
- Track 14 : Sicarius2\_61
- Track 15 : StevieBAY\_60
- Track 16 : BarretLemon\_60
- Track 17 : Wyborn\_60
- Track 18 : Alatato\_66
- Track 19 : Cassini\_89

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

The start number called the most often in the published annotations is 5, it was called in 25 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon\_60, Beans\_57, BigDome\_60, BossLady\_62, Brent\_57, EastWest\_64, Franzy\_56, GravityBall\_60, Grekaycon\_61, JKerns\_60, Jawnski\_56, Jordan\_60, King2\_56, LeeroyJ\_60, Martha\_61, NathanVaag\_56, Piccoletto\_57, Pippa\_61, Shade\_60, Sicarius2\_61, Sonny\_59, StevieBAY\_60, TaeYoung\_62, Timinator\_60, Wyborn\_60, Zartrosa\_60,

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

-

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

- Alataato\_66, Cassini\_89,

### Summary by start number:

Start 5:

- Found in 26 of 28 ( 92.9% ) of genes in pham
- Manual Annotations of this start: 25 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarretLemon\_60 (AO2), Beans\_57 (AO1), BigDome\_60 (AO2), BossLady\_62 (AO2), Brent\_57 (AO1), EastWest\_64 (AO), Franzy\_56 (AO1), GravityBall\_60 (AO2), Grekaycon\_61 (AO2), JKerns\_60 (AO2), Jawnski\_56 (AO1), Jordan\_60 (AO2), King2\_56 (AO1), LeeroyJ\_60 (AO2), Martha\_61 (AO2), NathanVaag\_56 (AO1), Piccoletto\_57 (AO1), Pippa\_61 (AO2), Shade\_60 (AO2), Sicarius2\_61 (AO2), Sonny\_59 (AO2), StevieBAY\_60 (AO2), TaeYoung\_62 (AO2), Timinator\_60 (AO2), Wyborn\_60 (AO2), Zartrosa\_60 (AO2),

Start 6:

- Found in 28 of 28 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Alataato\_66 (FB), Cassini\_89 (FN),

### Summary by clusters:

There are 5 clusters represented in this pham: AO, FN, FB, AO2, AO1,

Info for manual annotations of cluster AO:

- Start number 5 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 5 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 5 was manually annotated 17 times for cluster AO2.

Info for manual annotations of cluster FB:

- Start number 6 was manually annotated 1 time for cluster FB.

### Gene Information:

Gene: Alataato\_66 Start: 36652, Stop: 36918, Start Num: 6

Candidate Starts for Alataato\_66:

(Start: 6 @36652 has 1 MA's), (11, 36757), (15, 36859), (17, 36880),

Gene: BarretLemon\_60 Start: 40898, Stop: 41215, Start Num: 5

Candidate Starts for BarretLemon\_60:

(Start: 5 @40898 has 25 MA's), (Start: 6 @40913 has 1 MA's), (10, 41006), (18, 41150),

Gene: Beans\_57 Start: 40647, Stop: 40964, Start Num: 5

Candidate Starts for Beans\_57:

(Start: 5 @40647 has 25 MA's), (Start: 6 @40662 has 1 MA's), (9, 40740), (10, 40755), (13, 40836), (18, 40899),

Gene: BigDome\_60 Start: 41119, Stop: 41436, Start Num: 5

Candidate Starts for BigDome\_60:

(Start: 5 @41119 has 25 MA's), (Start: 6 @41134 has 1 MA's), (10, 41227), (18, 41371),

Gene: BossLady\_62 Start: 41279, Stop: 41596, Start Num: 5

Candidate Starts for BossLady\_62:

(4, 41249), (Start: 5 @41279 has 25 MA's), (Start: 6 @41294 has 1 MA's), (9, 41372), (10, 41387), (18, 41531), (19, 41537),

Gene: Brent\_57 Start: 40890, Stop: 41213, Start Num: 5

Candidate Starts for Brent\_57:

(Start: 5 @40890 has 25 MA's), (Start: 6 @40905 has 1 MA's), (9, 40983), (10, 40998), (13, 41079), (18, 41142),

Gene: Cassini\_89 Start: 49546, Stop: 49809, Start Num: 6

Candidate Starts for Cassini\_89:

(Start: 6 @49546 has 1 MA's), (15, 49750), (17, 49771),

Gene: EastWest\_64 Start: 40104, Stop: 40406, Start Num: 5

Candidate Starts for EastWest\_64:

(1, 39882), (2, 39891), (Start: 5 @40104 has 25 MA's), (Start: 6 @40119 has 1 MA's), (10, 40212), (12, 40284),

Gene: Franzy\_56 Start: 40906, Stop: 41229, Start Num: 5

Candidate Starts for Franzy\_56:

(Start: 5 @40906 has 25 MA's), (Start: 6 @40921 has 1 MA's), (9, 40999), (10, 41014), (13, 41095), (18, 41158),

Gene: GravityBall\_60 Start: 41198, Stop: 41515, Start Num: 5

Candidate Starts for GravityBall\_60:

(Start: 5 @41198 has 25 MA's), (Start: 6 @41213 has 1 MA's), (10, 41306), (18, 41450),

Gene: Grekaycon\_61 Start: 41158, Stop: 41475, Start Num: 5

Candidate Starts for Grekaycon\_61:

(Start: 5 @41158 has 25 MA's), (Start: 6 @41173 has 1 MA's), (10, 41266), (18, 41410), (19, 41416),

Gene: JKerns\_60 Start: 41225, Stop: 41542, Start Num: 5

Candidate Starts for JKerns\_60:

(Start: 5 @41225 has 25 MA's), (Start: 6 @41240 has 1 MA's), (10, 41333), (18, 41477), (19, 41483),

Gene: Jawnski\_56 Start: 40415, Stop: 40738, Start Num: 5

Candidate Starts for Jawnski\_56:

(Start: 5 @40415 has 25 MA's), (Start: 6 @40430 has 1 MA's), (9, 40508), (10, 40523), (13, 40604), (18, 40667),

Gene: Jordan\_60 Start: 41039, Stop: 41356, Start Num: 5

Candidate Starts for Jordan\_60:

(Start: 5 @41039 has 25 MA's), (Start: 6 @41054 has 1 MA's), (10, 41147), (18, 41291), (19, 41297),

Gene: King2\_56 Start: 40767, Stop: 41090, Start Num: 5

Candidate Starts for King2\_56:

(Start: 5 @40767 has 25 MA's), (Start: 6 @40782 has 1 MA's), (9, 40860), (10, 40875), (13, 40956), (18, 41019), (20, 41040),

Gene: LeeroyJ\_60 Start: 40927, Stop: 41244, Start Num: 5

Candidate Starts for LeeroyJ\_60:

(Start: 5 @40927 has 25 MA's), (Start: 6 @40942 has 1 MA's), (10, 41035), (16, 41167), (18, 41179),

Gene: Martha\_61 Start: 41264, Stop: 41581, Start Num: 5

Candidate Starts for Martha\_61:

(Start: 5 @41264 has 25 MA's), (Start: 6 @41279 has 1 MA's), (9, 41357), (10, 41372), (18, 41516), (19, 41522),

Gene: NathanVaag\_56 Start: 40427, Stop: 40744, Start Num: 5

Candidate Starts for NathanVaag\_56:

(Start: 5 @40427 has 25 MA's), (Start: 6 @40442 has 1 MA's), (10, 40535), (13, 40616), (14, 40628), (18, 40679),

Gene: Piccoletto\_57 Start: 40620, Stop: 40937, Start Num: 5

Candidate Starts for Piccoletto\_57:

(Start: 5 @40620 has 25 MA's), (Start: 6 @40635 has 1 MA's), (10, 40728), (13, 40809), (14, 40821), (18, 40872),

Gene: Pippa\_61 Start: 41235, Stop: 41552, Start Num: 5

Candidate Starts for Pippa\_61:

(4, 41205), (Start: 5 @41235 has 25 MA's), (Start: 6 @41250 has 1 MA's), (9, 41328), (10, 41343), (18, 41487), (19, 41493),

Gene: Shade\_60 Start: 40961, Stop: 41278, Start Num: 5

Candidate Starts for Shade\_60:

(Start: 5 @40961 has 25 MA's), (Start: 6 @40976 has 1 MA's), (10, 41069), (18, 41213), (19, 41219),

Gene: Sicarius2\_61 Start: 39649, Stop: 39969, Start Num: 5

Candidate Starts for Sicarius2\_61:

(Start: 5 @39649 has 25 MA's), (Start: 6 @39664 has 1 MA's), (7, 39688), (8, 39718), (10, 39757), (16, 39889),

Gene: Sonny\_59 Start: 40710, Stop: 41027, Start Num: 5

Candidate Starts for Sonny\_59:

(Start: 5 @40710 has 25 MA's), (Start: 6 @40725 has 1 MA's), (10, 40818), (18, 40962), (19, 40968),

Gene: StevieBAY\_60 Start: 41191, Stop: 41508, Start Num: 5

Candidate Starts for StevieBAY\_60:

(Start: 5 @41191 has 25 MA's), (Start: 6 @41206 has 1 MA's), (10, 41299), (18, 41443),

Gene: TaeYoung\_62 Start: 41237, Stop: 41554, Start Num: 5

Candidate Starts for TaeYoung\_62:

(Start: 5 @41237 has 25 MA's), (Start: 6 @41252 has 1 MA's), (9, 41330), (10, 41345), (18, 41489), (19, 41495),

Gene: Timinator\_60 Start: 41040, Stop: 41357, Start Num: 5

Candidate Starts for Timinator\_60:

(Start: 5 @41040 has 25 MA's), (Start: 6 @41055 has 1 MA's), (10, 41148), (16, 41280), (18, 41292),

Gene: Wyborn\_60 Start: 40366, Stop: 40686, Start Num: 5

Candidate Starts for Wyborn\_60:

(3, 40315), (Start: 5 @40366 has 25 MA's), (Start: 6 @40381 has 1 MA's), (7, 40405), (10, 40474), (16, 40606),

Gene: Zartrosa\_60 Start: 41008, Stop: 41325, Start Num: 5

Candidate Starts for Zartrosa\_60:

(Start: 5 @41008 has 25 MA's), (Start: 6 @41023 has 1 MA's), (10, 41116), (18, 41260), (19, 41266),