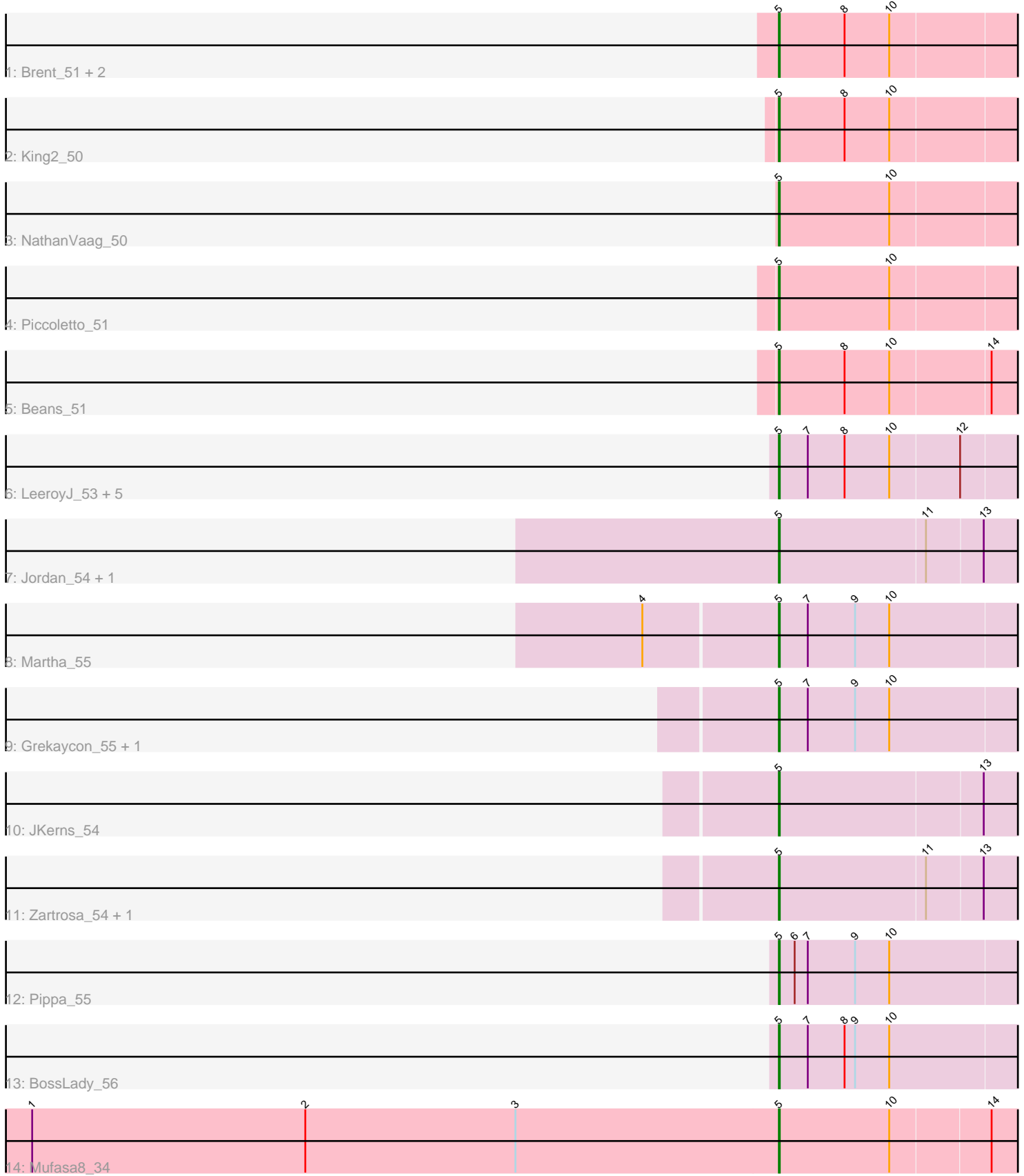


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 218246 Report

This analysis was run 03/28/25 on database version 593.

Pham number 218246 has 24 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Brent\_51, Jawnski\_50, Franzy\_51
- Track 2 : King2\_50
- Track 3 : NathanVaag\_50
- Track 4 : Piccoletto\_51
- Track 5 : Beans\_51
- Track 6 : LeeroyJ\_53, GravityBall\_54, StevieBAY\_54, BigDome\_54, Timinator\_54, BarretLemon\_53
- Track 7 : Jordan\_54, Shade\_54
- Track 8 : Martha\_55
- Track 9 : Grekaycon\_55, TaeYoung\_56
- Track 10 : JKerns\_54
- Track 11 : Zartrosa\_54, Sonny\_53
- Track 12 : Pippa\_55
- Track 13 : BossLady\_56
- Track 14 : Mufasa8\_34

### ***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 23 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BarretLemon\_53, Beans\_51, BigDome\_54, BossLady\_56, Brent\_51, Franzy\_51, GravityBall\_54, Grekaycon\_55, JKerns\_54, Jawnski\_50, Jordan\_54, King2\_50, LeeroyJ\_53, Martha\_55, Mufasa8\_34, NathanVaag\_50, Piccoletto\_51, Pippa\_55, Shade\_54, Sonny\_53, StevieBAY\_54, TaeYoung\_56, Timinator\_54, Zartrosa\_54,

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

- 

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

- 

**Summary by start number:**

Start 5:

- Found in 24 of 24 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 23 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarretLemon\_53 (AO2), Beans\_51 (AO1), BigDome\_54 (AO2), BossLady\_56 (AO2), Brent\_51 (AO1), Franzy\_51 (AO1), GravityBall\_54 (AO2), Grekaycon\_55 (AO2), JKerns\_54 (AO2), Jawnski\_50 (AO1), Jordan\_54 (AO2), King2\_50 (AO1), LeeroyJ\_53 (AO2), Martha\_55 (AO2), Mufasa8\_34 (FG), NathanVaag\_50 (AO1), Piccoletto\_51 (AO1), Pippa\_55 (AO2), Shade\_54 (AO2), Sonny\_53 (AO2), StevieBAY\_54 (AO2), TaeYoung\_56 (AO2), Timinator\_54 (AO2), Zartrosa\_54 (AO2),

**Summary by clusters:**

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

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 15 times for cluster AO2.

Info for manual annotations of cluster FG:

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

**Gene Information:**

Gene: BarretLemon\_53 Start: 38160, Stop: 38453, Start Num: 5

Candidate Starts for BarretLemon\_53:

(Start: 5 @38160 has 23 MA's), (7, 38193), (8, 38235), (10, 38286), (12, 38364),

Gene: Beans\_51 Start: 38051, Stop: 38344, Start Num: 5

Candidate Starts for Beans\_51:

(Start: 5 @38051 has 23 MA's), (8, 38126), (10, 38177), (14, 38288),

Gene: BigDome\_54 Start: 38543, Stop: 38836, Start Num: 5

Candidate Starts for BigDome\_54:

(Start: 5 @38543 has 23 MA's), (7, 38576), (8, 38618), (10, 38669), (12, 38747),

Gene: BossLady\_56 Start: 38814, Stop: 39116, Start Num: 5

Candidate Starts for BossLady\_56:

(Start: 5 @38814 has 23 MA's), (7, 38847), (8, 38889), (9, 38901), (10, 38940),

Gene: Brent\_51 Start: 38336, Stop: 38629, Start Num: 5

Candidate Starts for Brent\_51:

(Start: 5 @38336 has 23 MA's), (8, 38411), (10, 38462),

Gene: Franzy\_51 Start: 38352, Stop: 38645, Start Num: 5

Candidate Starts for Franzy\_51:

(Start: 5 @38352 has 23 MA's), (8, 38427), (10, 38478),

Gene: GravityBall\_54 Start: 38611, Stop: 38904, Start Num: 5  
Candidate Starts for GravityBall\_54:  
(Start: 5 @38611 has 23 MA's), (7, 38644), (8, 38686), (10, 38737), (12, 38815),

Gene: Grekaycon\_55 Start: 38694, Stop: 38996, Start Num: 5  
Candidate Starts for Grekaycon\_55:  
(Start: 5 @38694 has 23 MA's), (7, 38727), (9, 38781), (10, 38820),

Gene: JKerns\_54 Start: 38768, Stop: 39061, Start Num: 5  
Candidate Starts for JKerns\_54:  
(Start: 5 @38768 has 23 MA's), (13, 38996),

Gene: Jawnski\_50 Start: 37861, Stop: 38154, Start Num: 5  
Candidate Starts for Jawnski\_50:  
(Start: 5 @37861 has 23 MA's), (8, 37936), (10, 37987),

Gene: Jordan\_54 Start: 38577, Stop: 38870, Start Num: 5  
Candidate Starts for Jordan\_54:  
(Start: 5 @38577 has 23 MA's), (11, 38742), (13, 38805),

Gene: King2\_50 Start: 38240, Stop: 38533, Start Num: 5  
Candidate Starts for King2\_50:  
(Start: 5 @38240 has 23 MA's), (8, 38315), (10, 38366),

Gene: LeeroyJ\_53 Start: 38189, Stop: 38482, Start Num: 5  
Candidate Starts for LeeroyJ\_53:  
(Start: 5 @38189 has 23 MA's), (7, 38222), (8, 38264), (10, 38315), (12, 38393),

Gene: Martha\_55 Start: 38796, Stop: 39098, Start Num: 5  
Candidate Starts for Martha\_55:  
(4, 38646), (Start: 5 @38796 has 23 MA's), (7, 38829), (9, 38883), (10, 38922),

Gene: Mufasa8\_34 Start: 28999, Stop: 28703, Start Num: 5  
Candidate Starts for Mufasa8\_34:  
(1, 29851), (2, 29539), (3, 29299), (Start: 5 @28999 has 23 MA's), (10, 28873), (14, 28762),

Gene: NathanVaag\_50 Start: 37875, Stop: 38168, Start Num: 5  
Candidate Starts for NathanVaag\_50:  
(Start: 5 @37875 has 23 MA's), (10, 38001),

Gene: Piccoletto\_51 Start: 38068, Stop: 38361, Start Num: 5  
Candidate Starts for Piccoletto\_51:  
(Start: 5 @38068 has 23 MA's), (10, 38194),

Gene: Pippa\_55 Start: 38701, Stop: 39003, Start Num: 5  
Candidate Starts for Pippa\_55:  
(Start: 5 @38701 has 23 MA's), (6, 38719), (7, 38734), (9, 38788), (10, 38827),

Gene: Shade\_54 Start: 38502, Stop: 38795, Start Num: 5  
Candidate Starts for Shade\_54:  
(Start: 5 @38502 has 23 MA's), (11, 38667), (13, 38730),

Gene: Sonny\_53 Start: 38246, Stop: 38539, Start Num: 5

Candidate Starts for Sonny\_53:

(Start: 5 @38246 has 23 MA's), (11, 38411), (13, 38474),

Gene: StevieBAY\_54 Start: 38608, Stop: 38901, Start Num: 5

Candidate Starts for StevieBAY\_54:

(Start: 5 @38608 has 23 MA's), (7, 38641), (8, 38683), (10, 38734), (12, 38812),

Gene: TaeYoung\_56 Start: 38769, Stop: 39071, Start Num: 5

Candidate Starts for TaeYoung\_56:

(Start: 5 @38769 has 23 MA's), (7, 38802), (9, 38856), (10, 38895),

Gene: Timinator\_54 Start: 38477, Stop: 38770, Start Num: 5

Candidate Starts for Timinator\_54:

(Start: 5 @38477 has 23 MA's), (7, 38510), (8, 38552), (10, 38603), (12, 38681),

Gene: Zartrosa\_54 Start: 38547, Stop: 38840, Start Num: 5

Candidate Starts for Zartrosa\_54:

(Start: 5 @38547 has 23 MA's), (11, 38712), (13, 38775),