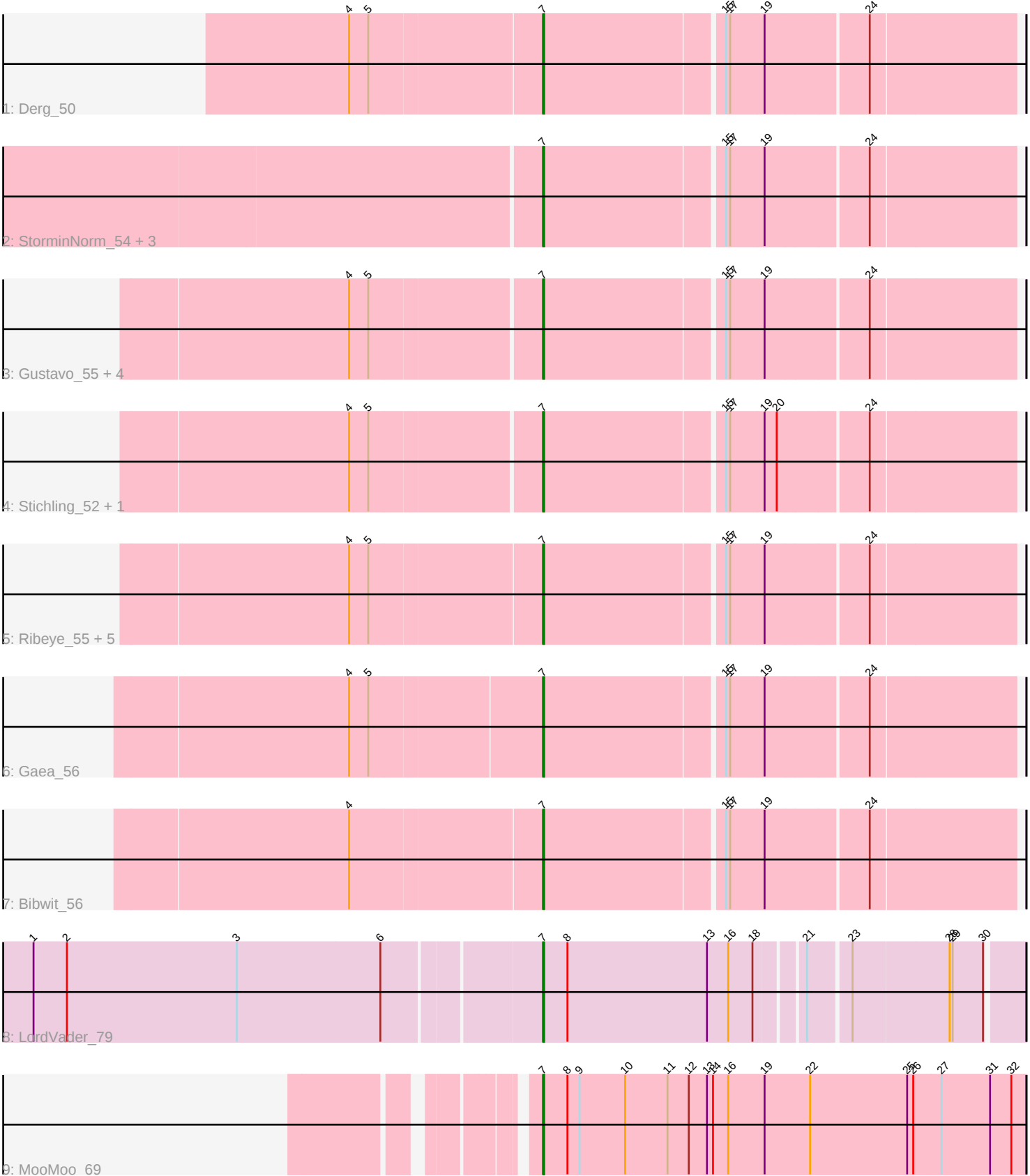


Pham 331221



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 331221 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331221 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Derg\_50
- Track 2 : StorminNorm\_54, LilHam\_52, Baumdotcom\_53, Tycho\_54
- Track 3 : Gustavo\_55, Flatwoods\_55, Saronaya\_55, Tangerine\_54, Baddon\_55
- Track 4 : Stichling\_52, JKSyngboy\_53
- Track 5 : Ribeye\_55, Bizzy\_55, YorkOnyx\_56, Kwobi\_57, SchottB\_53, Kroos\_55
- Track 6 : Gaea\_56
- Track 7 : Bibwit\_56
- Track 8 : LordVader\_79
- Track 9 : MooMoo\_69

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

The start number called the most often in the published annotations is 7, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Baddon\_55, Baumdotcom\_53, Bibwit\_56, Bizzy\_55, Derg\_50, Flatwoods\_55, Gaea\_56, Gustavo\_55, JKSyngboy\_53, Kroos\_55, Kwobi\_57, LilHam\_52, LordVader\_79, MooMoo\_69, Ribeye\_55, Saronaya\_55, SchottB\_53, Stichling\_52, StorminNorm\_54, Tangerine\_54, Tycho\_54, YorkOnyx\_56,

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 7:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Baddon\_55 (DE1), Baumdotcom\_53 (DE1), Bibwit\_56 (DE1), Bizzy\_55 (DE1), Derg\_50 (DE1), Flatwoods\_55 (DE1), Gaea\_56 (DE1), Gustavo\_55 (DE1), JKSyngboy\_53 (DE1), Kroos\_55 (DE1), Kwobi\_57 (DE1), LilHam\_52 (DE1), LordVader\_79 (F), MooMoo\_69 (singleton), Ribeye\_55 (DE1), Saronaya\_55 (DE1), SchottB\_53 (DE1), Stichling\_52 (DE1), StorminNorm\_54 (DE1), Tangerine\_54 (DE1), Tycho\_54 (DE1), YorkOnyx\_56 (DE1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DE1, singleton, F,

Info for manual annotations of cluster DE1:

- Start number 7 was manually annotated 19 times for cluster DE1.

Info for manual annotations of cluster F:

- Start number 7 was manually annotated 1 time for cluster F.

### **Gene Information:**

Gene: Baddon\_55 Start: 46339, Stop: 46782, Start Num: 7

Candidate Starts for Baddon\_55:

(4, 46159), (5, 46177), (Start: 7 @46339 has 21 MA's), (15, 46510), (17, 46513), (19, 46546), (24, 46642),

Gene: Baumdotcom\_53 Start: 44887, Stop: 45330, Start Num: 7

Candidate Starts for Baumdotcom\_53:

(Start: 7 @44887 has 21 MA's), (15, 45058), (17, 45061), (19, 45094), (24, 45190),

Gene: Bibwit\_56 Start: 45240, Stop: 45683, Start Num: 7

Candidate Starts for Bibwit\_56:

(4, 45057), (Start: 7 @45240 has 21 MA's), (15, 45411), (17, 45414), (19, 45447), (24, 45543),

Gene: Bizzy\_55 Start: 45057, Stop: 45500, Start Num: 7

Candidate Starts for Bizzy\_55:

(4, 44874), (5, 44892), (Start: 7 @45057 has 21 MA's), (15, 45228), (17, 45231), (19, 45264), (24, 45360),

Gene: Derg\_50 Start: 44649, Stop: 45092, Start Num: 7

Candidate Starts for Derg\_50:

(4, 44466), (5, 44484), (Start: 7 @44649 has 21 MA's), (15, 44820), (17, 44823), (19, 44856), (24, 44952),

Gene: Flatwoods\_55 Start: 44995, Stop: 45438, Start Num: 7

Candidate Starts for Flatwoods\_55:

(4, 44815), (5, 44833), (Start: 7 @44995 has 21 MA's), (15, 45166), (17, 45169), (19, 45202), (24, 45298),

Gene: Gaea\_56 Start: 45026, Stop: 45469, Start Num: 7

Candidate Starts for Gaea\_56:

(4, 44843), (5, 44861), (Start: 7 @45026 has 21 MA's), (15, 45197), (17, 45200), (19, 45233), (24, 45329),

Gene: Gustavo\_55 Start: 45277, Stop: 45720, Start Num: 7

Candidate Starts for Gustavo\_55:

(4, 45097), (5, 45115), (Start: 7 @45277 has 21 MA's), (15, 45448), (17, 45451), (19, 45484), (24, 45580),

Gene: JKSyngboy\_53 Start: 45870, Stop: 46313, Start Num: 7

Candidate Starts for JKSyngboy\_53:

(4, 45690), (5, 45708), (Start: 7 @45870 has 21 MA's), (15, 46041), (17, 46044), (19, 46077), (20, 46089), (24, 46173),

Gene: Kroos\_55 Start: 45557, Stop: 46000, Start Num: 7

Candidate Starts for Kroos\_55:

(4, 45374), (5, 45392), (Start: 7 @45557 has 21 MA's), (15, 45728), (17, 45731), (19, 45764), (24, 45860),

Gene: Kwobi\_57 Start: 45983, Stop: 46426, Start Num: 7

Candidate Starts for Kwobi\_57:

(4, 45800), (5, 45818), (Start: 7 @45983 has 21 MA's), (15, 46154), (17, 46157), (19, 46190), (24, 46286),

Gene: LilHam\_52 Start: 44286, Stop: 44729, Start Num: 7

Candidate Starts for LilHam\_52:

(Start: 7 @44286 has 21 MA's), (15, 44457), (17, 44460), (19, 44493), (24, 44589),

Gene: LordVader\_79 Start: 47672, Stop: 48121, Start Num: 7

Candidate Starts for LordVader\_79:

(1, 47183), (2, 47216), (3, 47384), (6, 47525), (Start: 7 @47672 has 21 MA's), (8, 47696), (13, 47834), (16, 47855), (18, 47879), (21, 47921), (23, 47960), (28, 48053), (29, 48056), (30, 48086),

Gene: MooMoo\_69 Start: 44993, Stop: 45469, Start Num: 7

Candidate Starts for MooMoo\_69:

(Start: 7 @44993 has 21 MA's), (8, 45017), (9, 45029), (10, 45074), (11, 45116), (12, 45137), (13, 45155), (14, 45161), (16, 45176), (19, 45212), (22, 45257), (25, 45353), (26, 45359), (27, 45386), (31, 45434), (32, 45455),

Gene: Ribeye\_55 Start: 45981, Stop: 46424, Start Num: 7

Candidate Starts for Ribeye\_55:

(4, 45798), (5, 45816), (Start: 7 @45981 has 21 MA's), (15, 46152), (17, 46155), (19, 46188), (24, 46284),

Gene: Saronaya\_55 Start: 45277, Stop: 45720, Start Num: 7

Candidate Starts for Saronaya\_55:

(4, 45097), (5, 45115), (Start: 7 @45277 has 21 MA's), (15, 45448), (17, 45451), (19, 45484), (24, 45580),

Gene: SchottB\_53 Start: 45817, Stop: 46260, Start Num: 7

Candidate Starts for SchottB\_53:

(4, 45634), (5, 45652), (Start: 7 @45817 has 21 MA's), (15, 45988), (17, 45991), (19, 46024), (24, 46120),

Gene: Stichling\_52 Start: 44334, Stop: 44777, Start Num: 7

Candidate Starts for Stichling\_52:

(4, 44154), (5, 44172), (Start: 7 @44334 has 21 MA's), (15, 44505), (17, 44508), (19, 44541), (20, 44553), (24, 44637),

Gene: StorminNorm\_54 Start: 45026, Stop: 45469, Start Num: 7

Candidate Starts for StorminNorm\_54:

(Start: 7 @45026 has 21 MA's), (15, 45197), (17, 45200), (19, 45233), (24, 45329),

Gene: Tangerine\_54 Start: 44689, Stop: 45132, Start Num: 7

Candidate Starts for Tangerine\_54:

(4, 44509), (5, 44527), (Start: 7 @44689 has 21 MA's), (15, 44860), (17, 44863), (19, 44896), (24, 44992),

Gene: Tycho\_54 Start: 44894, Stop: 45337, Start Num: 7

Candidate Starts for Tycho\_54:

(Start: 7 @44894 has 21 MA's), (15, 45065), (17, 45068), (19, 45101), (24, 45197),

Gene: YorkOnyx\_56 Start: 45472, Stop: 45915, Start Num: 7

Candidate Starts for YorkOnyx\_56:

(4, 45289), (5, 45307), (Start: 7 @45472 has 21 MA's), (15, 45643), (17, 45646), (19, 45679), (24, 45775),