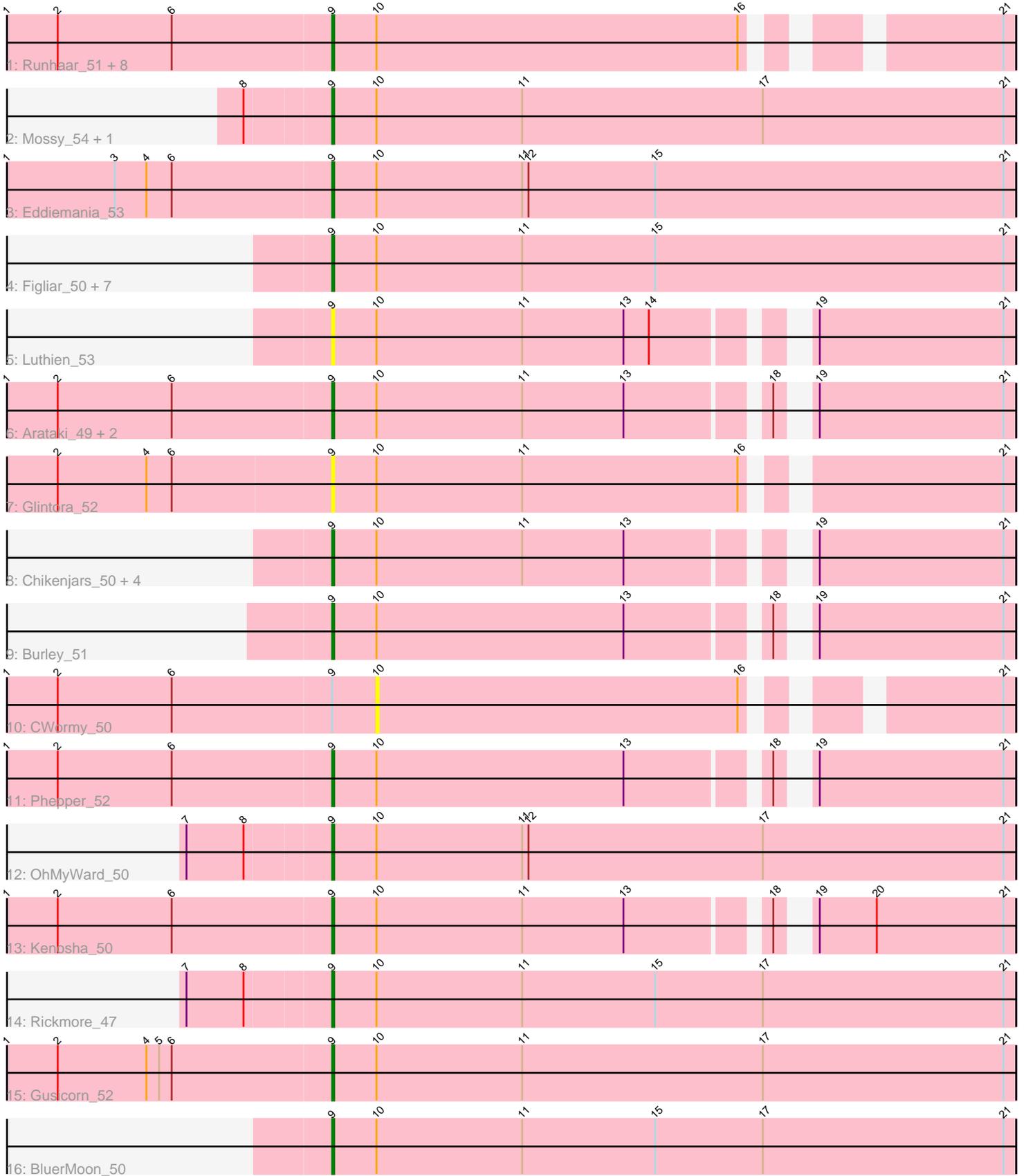


Pham 283989



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 283989 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283989 has 38 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Runhaar_51, Zeph_53, Vardy_50, Madvan_51, Hydrus_53, Crocheter_51, Untouchable_52, Nadmeg_52, ArtetaBall_51
- Track 2 : Mossy_54, Blanky_52
- Track 3 : Eddiemania_53
- Track 4 : Figliar_50, Tonaltzin_53, TenaciousP_51, Jodelie19_50, OlgasClover_52, MajinBuu_50, Aflac_50, Duffington_49
- Track 5 : Luthien_53
- Track 6 : Arataki_49, Dialga_51, Demure_48
- Track 7 : Glintora_52
- Track 8 : Chikenjars_50, AlainaMarie_50, Nithya_51, EndAve_52, Citrus_50
- Track 9 : Burley_51
- Track 10 : CWormy_50
- Track 11 : Phepper_52
- Track 12 : OhMyWard_50
- Track 13 : Kenosha_50
- Track 14 : Rickmore_47
- Track 15 : Gusicorn_52
- Track 16 : BluerMoon_50

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

The start number called the most often in the published annotations is 9, it was called in 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_50, AlainaMarie_50, Arataki_49, ArtetaBall_51, Blanky_52, BluerMoon_50, Burley_51, Chikenjars_50, Citrus_50, Crocheter_51, Demure_48, Dialga_51, Duffington_49, Eddiemania_53, EndAve_52, Figliar_50, Glintora_52, Gusicorn_52, Hydrus_53, Jodelie19_50, Kenosha_50, Luthien_53, Madvan_51, MajinBuu_50, Mossy_54, Nadmeg_52, Nithya_51, OhMyWard_50, OlgasClover_52, Phepper_52, Rickmore_47, Runhaar_51, TenaciousP_51, Tonaltzin_53, Untouchable_52, Vardy_50, Zeph_53,

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

- CWormy_50,

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

-

Summary by start number:

Start 9:

- Found in 38 of 38 (100.0%) of genes in pham
- Manual Annotations of this start: 30 of 30
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Aflac_50 (DJ), AlainaMarie_50 (DJ), Arataki_49 (DJ), ArtetaBall_51 (DJ), Blanky_52 (DJ), BluerMoon_50 (DJ), Burley_51 (DJ), Chikenjars_50 (DJ), Citrus_50 (DJ), Crocheter_51 (DJ), Demure_48 (DJ), Dialga_51 (DJ), Duffington_49 (DJ), Eddiemania_53 (DJ), EndAve_52 (DJ), Figliar_50 (DJ), Glintora_52 (DJ), Gusicorn_52 (DJ), Hydrus_53 (DJ), Jodelie19_50 (DJ), Kenosha_50 (DJ), Luthien_53 (DJ), Madvan_51 (DJ), MajinBuu_50 (DJ), Mossy_54 (DJ), Nadmeg_52 (DJ), Nithya_51 (DJ), OhMyWard_50 (DJ), OlgasClover_52 (DJ), Phepper_52 (DJ), Rickmore_47 (DJ), Runhaar_51 (DJ), TenaciousP_51 (DJ), Tonaltzin_53 (DJ), Untouchable_52 (DJ), Vardy_50 (DJ), Zeph_53 (DJ),

Start 10:

- Found in 38 of 38 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: CWormy_50 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 9 was manually annotated 30 times for cluster DJ.

Gene Information:

Gene: Aflac_50 Start: 36071, Stop: 36394, Start Num: 9

Candidate Starts for Aflac_50:

(Start: 9 @36071 has 30 MA's), (10, 36092), (11, 36161), (15, 36224), (21, 36389),

Gene: AlainaMarie_50 Start: 36068, Stop: 36367, Start Num: 9

Candidate Starts for AlainaMarie_50:

(Start: 9 @36068 has 30 MA's), (10, 36089), (11, 36158), (13, 36206), (19, 36275), (21, 36362),

Gene: Arataki_49 Start: 35174, Stop: 35473, Start Num: 9

Candidate Starts for Arataki_49:

(1, 35021), (2, 35045), (6, 35099), (Start: 9 @35174 has 30 MA's), (10, 35195), (11, 35264), (13, 35312), (18, 35372), (19, 35381), (21, 35468),

Gene: ArtetaBall_51 Start: 36374, Stop: 36664, Start Num: 9

Candidate Starts for ArtetaBall_51:

(1, 36221), (2, 36245), (6, 36299), (Start: 9 @36374 has 30 MA's), (10, 36395), (16, 36566), (21, 36659),

Gene: Blanky_52 Start: 37776, Stop: 38099, Start Num: 9

Candidate Starts for Blanky_52:

(8, 37737), (Start: 9 @37776 has 30 MA's), (10, 37797), (11, 37866), (17, 37980), (21, 38094),

Gene: BluerMoon_50 Start: 36068, Stop: 36391, Start Num: 9

Candidate Starts for BluerMoon_50:

(Start: 9 @36068 has 30 MA's), (10, 36089), (11, 36158), (15, 36221), (17, 36272), (21, 36386),

Gene: Burley_51 Start: 35832, Stop: 36131, Start Num: 9

Candidate Starts for Burley_51:

(Start: 9 @35832 has 30 MA's), (10, 35853), (13, 35970), (18, 36030), (19, 36039), (21, 36126),

Gene: CWormy_50 Start: 35808, Stop: 36077, Start Num: 10

Candidate Starts for CWormy_50:

(1, 35634), (2, 35658), (6, 35712), (Start: 9 @35787 has 30 MA's), (10, 35808), (16, 35979), (21, 36072),

Gene: Chikenjars_50 Start: 36079, Stop: 36378, Start Num: 9

Candidate Starts for Chikenjars_50:

(Start: 9 @36079 has 30 MA's), (10, 36100), (11, 36169), (13, 36217), (19, 36286), (21, 36373),

Gene: Citrus_50 Start: 36358, Stop: 36657, Start Num: 9

Candidate Starts for Citrus_50:

(Start: 9 @36358 has 30 MA's), (10, 36379), (11, 36448), (13, 36496), (19, 36565), (21, 36652),

Gene: Crocheter_51 Start: 36232, Stop: 36522, Start Num: 9

Candidate Starts for Crocheter_51:

(1, 36079), (2, 36103), (6, 36157), (Start: 9 @36232 has 30 MA's), (10, 36253), (16, 36424), (21, 36517),

Gene: Demure_48 Start: 35174, Stop: 35473, Start Num: 9

Candidate Starts for Demure_48:

(1, 35021), (2, 35045), (6, 35099), (Start: 9 @35174 has 30 MA's), (10, 35195), (11, 35264), (13, 35312), (18, 35372), (19, 35381), (21, 35468),

Gene: Dialga_51 Start: 36393, Stop: 36692, Start Num: 9

Candidate Starts for Dialga_51:

(1, 36240), (2, 36264), (6, 36318), (Start: 9 @36393 has 30 MA's), (10, 36414), (11, 36483), (13, 36531), (18, 36591), (19, 36600), (21, 36687),

Gene: Duffington_49 Start: 35729, Stop: 36052, Start Num: 9

Candidate Starts for Duffington_49:

(Start: 9 @35729 has 30 MA's), (10, 35750), (11, 35819), (15, 35882), (21, 36047),

Gene: Eddiemania_53 Start: 36963, Stop: 37286, Start Num: 9

Candidate Starts for Eddiemania_53:

(1, 36810), (3, 36861), (4, 36876), (6, 36888), (Start: 9 @36963 has 30 MA's), (10, 36984), (11, 37053), (12, 37056), (15, 37116), (21, 37281),

Gene: EndAve_52 Start: 36248, Stop: 36547, Start Num: 9
Candidate Starts for EndAve_52:
(Start: 9 @36248 has 30 MA's), (10, 36269), (11, 36338), (13, 36386), (19, 36455), (21, 36542),

Gene: Figliar_50 Start: 36131, Stop: 36454, Start Num: 9
Candidate Starts for Figliar_50:
(Start: 9 @36131 has 30 MA's), (10, 36152), (11, 36221), (15, 36284), (21, 36449),

Gene: Glintora_52 Start: 36709, Stop: 37011, Start Num: 9
Candidate Starts for Glintora_52:
(2, 36580), (4, 36622), (6, 36634), (Start: 9 @36709 has 30 MA's), (10, 36730), (11, 36799), (16, 36901), (21, 37006),

Gene: Gusicorn_52 Start: 36126, Stop: 36449, Start Num: 9
Candidate Starts for Gusicorn_52:
(1, 35973), (2, 35997), (4, 36039), (5, 36045), (6, 36051), (Start: 9 @36126 has 30 MA's), (10, 36147), (11, 36216), (17, 36330), (21, 36444),

Gene: Hydrus_53 Start: 37004, Stop: 37294, Start Num: 9
Candidate Starts for Hydrus_53:
(1, 36851), (2, 36875), (6, 36929), (Start: 9 @37004 has 30 MA's), (10, 37025), (16, 37196), (21, 37289),

Gene: Jodelie19_50 Start: 37535, Stop: 37858, Start Num: 9
Candidate Starts for Jodelie19_50:
(Start: 9 @37535 has 30 MA's), (10, 37556), (11, 37625), (15, 37688), (21, 37853),

Gene: Kenosha_50 Start: 36640, Stop: 36939, Start Num: 9
Candidate Starts for Kenosha_50:
(1, 36487), (2, 36511), (6, 36565), (Start: 9 @36640 has 30 MA's), (10, 36661), (11, 36730), (13, 36778), (18, 36838), (19, 36847), (20, 36874), (21, 36934),

Gene: Luthien_53 Start: 36246, Stop: 36545, Start Num: 9
Candidate Starts for Luthien_53:
(Start: 9 @36246 has 30 MA's), (10, 36267), (11, 36336), (13, 36384), (14, 36396), (19, 36453), (21, 36540),

Gene: Madvan_51 Start: 35873, Stop: 36163, Start Num: 9
Candidate Starts for Madvan_51:
(1, 35720), (2, 35744), (6, 35798), (Start: 9 @35873 has 30 MA's), (10, 35894), (16, 36065), (21, 36158),

Gene: MajinBuu_50 Start: 36158, Stop: 36481, Start Num: 9
Candidate Starts for MajinBuu_50:
(Start: 9 @36158 has 30 MA's), (10, 36179), (11, 36248), (15, 36311), (21, 36476),

Gene: Mossy_54 Start: 37991, Stop: 38314, Start Num: 9
Candidate Starts for Mossy_54:
(8, 37952), (Start: 9 @37991 has 30 MA's), (10, 38012), (11, 38081), (17, 38195), (21, 38309),

Gene: Nadmeg_52 Start: 37305, Stop: 37595, Start Num: 9
Candidate Starts for Nadmeg_52:

(1, 37152), (2, 37176), (6, 37230), (Start: 9 @37305 has 30 MA's), (10, 37326), (16, 37497), (21, 37590),

Gene: Nithya_51 Start: 36069, Stop: 36368, Start Num: 9

Candidate Starts for Nithya_51:

(Start: 9 @36069 has 30 MA's), (10, 36090), (11, 36159), (13, 36207), (19, 36276), (21, 36363),

Gene: OhMyWard_50 Start: 37086, Stop: 37409, Start Num: 9

Candidate Starts for OhMyWard_50:

(7, 37020), (8, 37047), (Start: 9 @37086 has 30 MA's), (10, 37107), (11, 37176), (12, 37179), (17, 37290), (21, 37404),

Gene: OlgasClover_52 Start: 37116, Stop: 37439, Start Num: 9

Candidate Starts for OlgasClover_52:

(Start: 9 @37116 has 30 MA's), (10, 37137), (11, 37206), (15, 37269), (21, 37434),

Gene: Phepper_52 Start: 36126, Stop: 36425, Start Num: 9

Candidate Starts for Phepper_52:

(1, 35973), (2, 35997), (6, 36051), (Start: 9 @36126 has 30 MA's), (10, 36147), (13, 36264), (18, 36324), (19, 36333), (21, 36420),

Gene: Rickmore_47 Start: 33930, Stop: 34253, Start Num: 9

Candidate Starts for Rickmore_47:

(7, 33864), (8, 33891), (Start: 9 @33930 has 30 MA's), (10, 33951), (11, 34020), (15, 34083), (17, 34134), (21, 34248),

Gene: Runhaar_51 Start: 36121, Stop: 36411, Start Num: 9

Candidate Starts for Runhaar_51:

(1, 35968), (2, 35992), (6, 36046), (Start: 9 @36121 has 30 MA's), (10, 36142), (16, 36313), (21, 36406),

Gene: TenaciousP_51 Start: 37497, Stop: 37820, Start Num: 9

Candidate Starts for TenaciousP_51:

(Start: 9 @37497 has 30 MA's), (10, 37518), (11, 37587), (15, 37650), (21, 37815),

Gene: Tonaltzin_53 Start: 36067, Stop: 36390, Start Num: 9

Candidate Starts for Tonaltzin_53:

(Start: 9 @36067 has 30 MA's), (10, 36088), (11, 36157), (15, 36220), (21, 36385),

Gene: Untouchable_52 Start: 36486, Stop: 36776, Start Num: 9

Candidate Starts for Untouchable_52:

(1, 36333), (2, 36357), (6, 36411), (Start: 9 @36486 has 30 MA's), (10, 36507), (16, 36678), (21, 36771),

Gene: Vardy_50 Start: 35830, Stop: 36120, Start Num: 9

Candidate Starts for Vardy_50:

(1, 35677), (2, 35701), (6, 35755), (Start: 9 @35830 has 30 MA's), (10, 35851), (16, 36022), (21, 36115),

Gene: Zeph_53 Start: 36984, Stop: 37274, Start Num: 9

Candidate Starts for Zeph_53:

(1, 36831), (2, 36855), (6, 36909), (Start: 9 @36984 has 30 MA's), (10, 37005), (16, 37176), (21, 37269),

