Pham 291312

1: Butterball_61 + 4

2: John316_61 + 4

3: FelixAlejandro_63 + 1

4: CinnamonToast_64 + 2

5: BigShaq_58 + 2

6: Dakiti_59 + 2

7: Squibbles_57 + 11

8: Eggsie_56

9: BirksAndSocks_63

10: GourdThymes_58
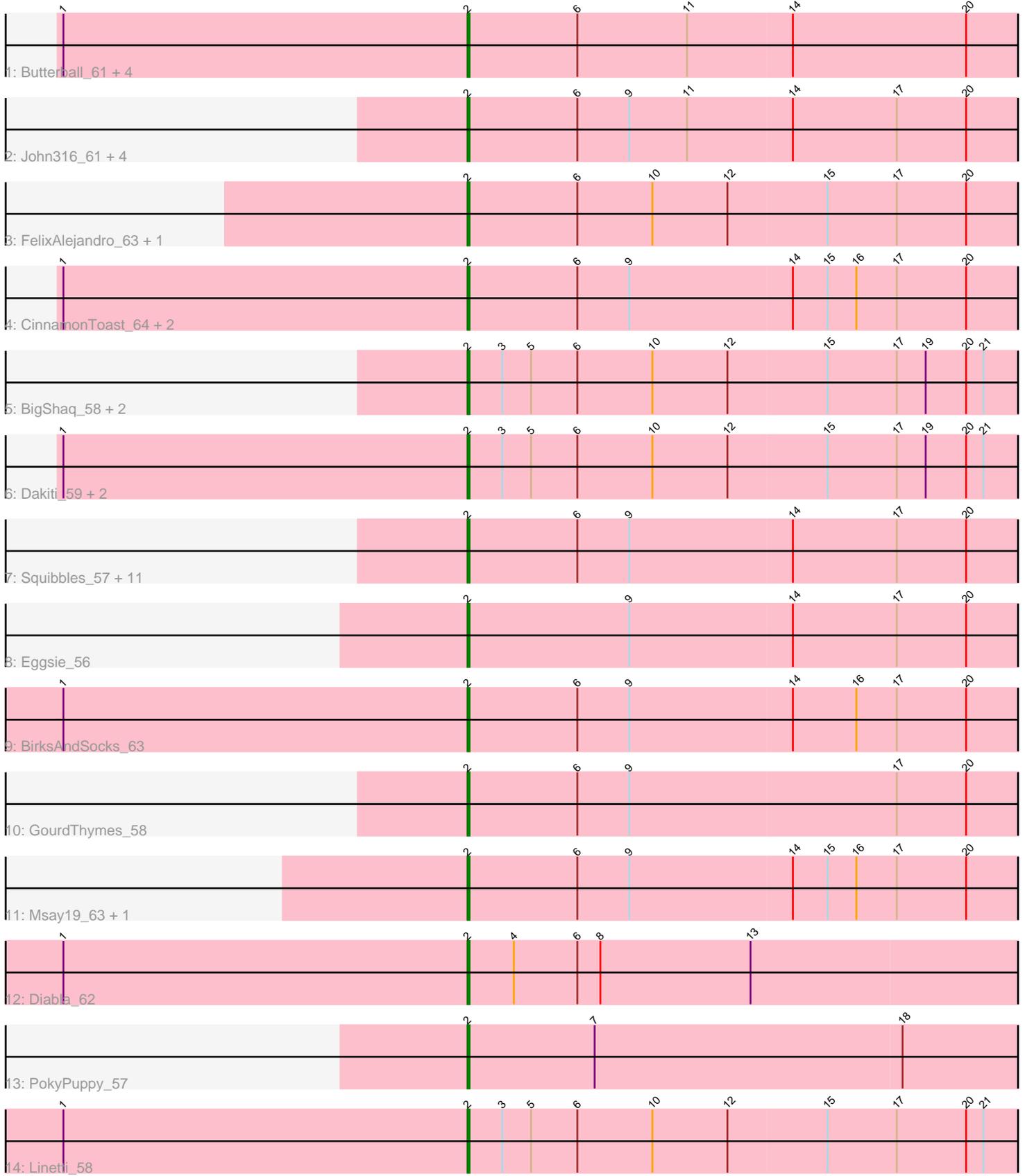
11: Msay19_63 + 1

12: Diabla_62

13: PokyPuppy_57

14: Linetti_58

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 291312 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291312 has 41 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Butterball_61, Adgers_61, SteveFrench_57, RoyalG_58, Boneham_62
• Track 2 : John316_61, Hotorobo_58, Monty_57, Gorko_57, Worcestershire_58
• Track 3 : FelixAlejandro_63, Sombrero_59
• Track 4 : CinnamonToast_64, Jellybones_60, BillyBobJr_64
• Track 5 : BigShaq_58, Crete_59, BenoitCattle_58
• Track 6 : Dakiti_59, PierreThree_57, Chelms_58
• Track 7 : Squibbles_57, Beaver_61, Barbochs_56, Exiguo_57, Flakey_57, Sam12_57, Breezic_58, RemRem_59, Kelzog_60, CathyBurgh_58, Ekhein_58, Lizzo_58
• Track 8 : Eggsie_56
• Track 9 : BirksAndSocks_63
• Track 10 : GourdThymes_58
• Track 11 : Msay19_63, Poland_63
• Track 12 : Diabla_62
• Track 13 : PokyPuppy_57
• Track 14 : Linetti_58

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

The start number called the most often in the published annotations is 2, it was called in 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adgers_61, Barbochs_56, Beaver_61, BenoitCattle_58, BigShaq_58, BillyBobJr_64, BirksAndSocks_63, Boneham_62, Breezic_58, Butterball_61, CathyBurgh_58, Chelms_58, CinnamonToast_64, Crete_59, Dakiti_59, Diabla_62, Eggsie_56, Ekhein_58, Exiguo_57, FelixAlejandro_63, Flakey_57, Gorko_57, GourdThymes_58, Hotorobo_58, Jellybones_60, John316_61, Kelzog_60, Linetti_58, Lizzo_58, Monty_57, Msay19_63, PierreThree_57, PokyPuppy_57, Poland_63, RemRem_59, RoyalG_58, Sam12_57, Sombrero_59, Squibbles_57, SteveFrench_57, Worcestershire_58,

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 2:
• Found in 41 of 41 (100.0%) of genes in pham
• Manual Annotations of this start: 36 of 36
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adgers_61 (CS2), Barbochs_56 (CS2), Beaver_61 (CS2), BenoitCattle_58 (CS2), BigShaq_58 (CS2), BillyBobJr_64 (CS2), BirksAndSocks_63 (CS2), Boneham_62 (CS2), Breezic_58 (CS2), Butterball_61 (CS2), CathyBurgh_58 (CS2), Chelms_58 (CS2), CinnamonToast_64 (CS2), Crete_59 (CS2), Dakiti_59 (CS2), Diabla_62 (CS2), Eggsie_56 (CS2), Ekhein_58 (CS2), Exiguo_57 (CS2), FelixAlejandro_63 (CS2), Flakey_57 (CS2), Gorko_57 (CS2), GourdThymes_58 (CS2), Hotorobo_58 (CS2), Jellybones_60 (CS2), John316_61 (CS2), Kelzog_60 (CS2), Linetti_58 (CS2), Lizzo_58 (CS2), Monty_57 (CS2), Msay19_63 (CS2), PierreThree_57 (CS2), PokyPuppy_57 (CS2), Poland_63 (CS2), RemRem_59 (CS2), RoyalG_58 (CS2), Sam12_57 (CS2), Sombrero_59 (CS2), Squibbles_57 (CS2), SteveFrench_57 (CS2), Worcestershire_58 (CS2),

Summary by clusters:

There is one cluster represented in this pham: CS2

Info for manual annotations of cluster CS2:
•Start number 2 was manually annotated 36 times for cluster CS2.

Gene Information:
Gene: Adgers_61 Start: 50663, Stop: 50379, Start Num: 2
Candidate Starts for Adgers_61:
(1, 50873), (Start: 2 @50663 has 36 MA's), (6, 50606), (11, 50549), (14, 50495), (20, 50405),

Gene: Barbochs_56 Start: 50207, Stop: 49923, Start Num: 2
Candidate Starts for Barbochs_56:
(Start: 2 @50207 has 36 MA's), (6, 50150), (9, 50123), (14, 50039), (17, 49985), (20, 49949),

Gene: Beaver_61 Start: 51977, Stop: 51693, Start Num: 2
Candidate Starts for Beaver_61:
(Start: 2 @51977 has 36 MA's), (6, 51920), (9, 51893), (14, 51809), (17, 51755), (20, 51719),

Gene: BenoitCattle_58 Start: 50614, Stop: 50330, Start Num: 2
Candidate Starts for BenoitCattle_58:
(Start: 2 @50614 has 36 MA's), (3, 50596), (5, 50581), (6, 50557), (10, 50518), (12, 50479), (15, 50428), (17, 50392), (19, 50377), (20, 50356), (21, 50347),

Gene: BigShaq_58 Start: 50619, Stop: 50335, Start Num: 2
Candidate Starts for BigShaq_58:

(Start: 2 @50619 has 36 MA's), (3, 50601), (5, 50586), (6, 50562), (10, 50523), (12, 50484), (15, 50433), (17, 50397), (19, 50382), (20, 50361), (21, 50352),

Gene: BillyBobJr_64 Start: 52287, Stop: 52003, Start Num: 2
Candidate Starts for BillyBobJr_64:
(1, 52497), (Start: 2 @52287 has 36 MA's), (6, 52230), (9, 52203), (14, 52119), (15, 52101), (16, 52086), (17, 52065), (20, 52029),

Gene: BirksAndSocks_63 Start: 52327, Stop: 52043, Start Num: 2
Candidate Starts for BirksAndSocks_63:
(1, 52537), (Start: 2 @52327 has 36 MA's), (6, 52270), (9, 52243), (14, 52159), (16, 52126), (17, 52105), (20, 52069),

Gene: Boneham_62 Start: 52228, Stop: 51944, Start Num: 2
Candidate Starts for Boneham_62:
(1, 52438), (Start: 2 @52228 has 36 MA's), (6, 52171), (11, 52114), (14, 52060), (20, 51970),

Gene: Breezic_58 Start: 50220, Stop: 49936, Start Num: 2
Candidate Starts for Breezic_58:
(Start: 2 @50220 has 36 MA's), (6, 50163), (9, 50136), (14, 50052), (17, 49998), (20, 49962),

Gene: Butterball_61 Start: 52233, Stop: 51949, Start Num: 2
Candidate Starts for Butterball_61:
(1, 52443), (Start: 2 @52233 has 36 MA's), (6, 52176), (11, 52119), (14, 52065), (20, 51975),

Gene: CathyBurgh_58 Start: 50797, Stop: 50513, Start Num: 2
Candidate Starts for CathyBurgh_58:
(Start: 2 @50797 has 36 MA's), (6, 50740), (9, 50713), (14, 50629), (17, 50575), (20, 50539),

Gene: Chelms_58 Start: 50763, Stop: 50479, Start Num: 2
Candidate Starts for Chelms_58:
(1, 50973), (Start: 2 @50763 has 36 MA's), (3, 50745), (5, 50730), (6, 50706), (10, 50667), (12, 50628), (15, 50577), (17, 50541), (19, 50526), (20, 50505), (21, 50496),

Gene: CinnamonToast_64 Start: 52287, Stop: 52003, Start Num: 2
Candidate Starts for CinnamonToast_64:
(1, 52497), (Start: 2 @52287 has 36 MA's), (6, 52230), (9, 52203), (14, 52119), (15, 52101), (16, 52086), (17, 52065), (20, 52029),

Gene: Crete_59 Start: 50885, Stop: 50601, Start Num: 2
Candidate Starts for Crete_59:
(Start: 2 @50885 has 36 MA's), (3, 50867), (5, 50852), (6, 50828), (10, 50789), (12, 50750), (15, 50699), (17, 50663), (19, 50648), (20, 50627), (21, 50618),

Gene: Dakiti_59 Start: 51631, Stop: 51347, Start Num: 2
Candidate Starts for Dakiti_59:
(1, 51841), (Start: 2 @51631 has 36 MA's), (3, 51613), (5, 51598), (6, 51574), (10, 51535), (12, 51496), (15, 51445), (17, 51409), (19, 51394), (20, 51373), (21, 51364),

Gene: Diabla_62 Start: 52286, Stop: 52002, Start Num: 2
Candidate Starts for Diabla_62:
(1, 52496), (Start: 2 @52286 has 36 MA's), (4, 52262), (6, 52229), (8, 52217), (13, 52139),

Gene: Eggsie_56 Start: 50063, Stop: 49779, Start Num: 2
Candidate Starts for Eggsie_56:
(Start: 2 @50063 has 36 MA's), (9, 49979), (14, 49895), (17, 49841), (20, 49805),

Gene: Ekhein_58 Start: 49925, Stop: 49641, Start Num: 2
Candidate Starts for Ekhein_58:
(Start: 2 @49925 has 36 MA's), (6, 49868), (9, 49841), (14, 49757), (17, 49703), (20, 49667),

Gene: Exiguo_57 Start: 49937, Stop: 49653, Start Num: 2
Candidate Starts for Exiguo_57:
(Start: 2 @49937 has 36 MA's), (6, 49880), (9, 49853), (14, 49769), (17, 49715), (20, 49679),

Gene: FelixAlejandro_63 Start: 52631, Stop: 52347, Start Num: 2
Candidate Starts for FelixAlejandro_63:
(Start: 2 @52631 has 36 MA's), (6, 52574), (10, 52535), (12, 52496), (15, 52445), (17, 52409), (20, 52373),

Gene: Flakey_57 Start: 50801, Stop: 50517, Start Num: 2
Candidate Starts for Flakey_57:
(Start: 2 @50801 has 36 MA's), (6, 50744), (9, 50717), (14, 50633), (17, 50579), (20, 50543),

Gene: Gorko_57 Start: 49929, Stop: 49645, Start Num: 2
Candidate Starts for Gorko_57:
(Start: 2 @49929 has 36 MA's), (6, 49872), (9, 49845), (11, 49815), (14, 49761), (17, 49707), (20, 49671),

Gene: GourdThymes_58 Start: 50803, Stop: 50519, Start Num: 2
Candidate Starts for GourdThymes_58:
(Start: 2 @50803 has 36 MA's), (6, 50746), (9, 50719), (17, 50581), (20, 50545),

Gene: Hotorobo_58 Start: 50808, Stop: 50524, Start Num: 2
Candidate Starts for Hotorobo_58:
(Start: 2 @50808 has 36 MA's), (6, 50751), (9, 50724), (11, 50694), (14, 50640), (17, 50586), (20, 50550),

Gene: Jellybones_60 Start: 51903, Stop: 51619, Start Num: 2
Candidate Starts for Jellybones_60:
(1, 52113), (Start: 2 @51903 has 36 MA's), (6, 51846), (9, 51819), (14, 51735), (15, 51717), (16, 51702), (17, 51681), (20, 51645),

Gene: John316_61 Start: 51966, Stop: 51682, Start Num: 2
Candidate Starts for John316_61:
(Start: 2 @51966 has 36 MA's), (6, 51909), (9, 51882), (11, 51852), (14, 51798), (17, 51744), (20, 51708),

Gene: Kelzog_60 Start: 50815, Stop: 50531, Start Num: 2
Candidate Starts for Kelzog_60:
(Start: 2 @50815 has 36 MA's), (6, 50758), (9, 50731), (14, 50647), (17, 50593), (20, 50557),

Gene: Linetti_58 Start: 51616, Stop: 51332, Start Num: 2
Candidate Starts for Linetti_58:
(1, 51826), (Start: 2 @51616 has 36 MA's), (3, 51598), (5, 51583), (6, 51559), (10, 51520), (12, 51481), (15, 51430), (17, 51394), (20, 51358), (21, 51349),

Gene: Lizzo_58 Start: 50797, Stop: 50513, Start Num: 2
Candidate Starts for Lizzo_58:
(Start: 2 @50797 has 36 MA's), (6, 50740), (9, 50713), (14, 50629), (17, 50575), (20, 50539),

Gene: Monty_57 Start: 49947, Stop: 49663, Start Num: 2
Candidate Starts for Monty_57:
(Start: 2 @49947 has 36 MA's), (6, 49890), (9, 49863), (11, 49833), (14, 49779), (17, 49725), (20, 49689),

Gene: Msay19_63 Start: 52517, Stop: 52233, Start Num: 2
Candidate Starts for Msay19_63:
(Start: 2 @52517 has 36 MA's), (6, 52460), (9, 52433), (14, 52349), (15, 52331), (16, 52316), (17, 52295), (20, 52259),

Gene: PierreThree_57 Start: 51262, Stop: 50978, Start Num: 2
Candidate Starts for PierreThree_57:
(1, 51472), (Start: 2 @51262 has 36 MA's), (3, 51244), (5, 51229), (6, 51205), (10, 51166), (12, 51127), (15, 51076), (17, 51040), (19, 51025), (20, 51004), (21, 50995),

Gene: PokyPuppy_57 Start: 51259, Stop: 50975, Start Num: 2
Candidate Starts for PokyPuppy_57:
(Start: 2 @51259 has 36 MA's), (7, 51193), (18, 51034),

Gene: Poland_63 Start: 52496, Stop: 52212, Start Num: 2
Candidate Starts for Poland_63:
(Start: 2 @52496 has 36 MA's), (6, 52439), (9, 52412), (14, 52328), (15, 52310), (16, 52295), (17, 52274), (20, 52238),

Gene: RemRem_59 Start: 49937, Stop: 49653, Start Num: 2
Candidate Starts for RemRem_59:
(Start: 2 @49937 has 36 MA's), (6, 49880), (9, 49853), (14, 49769), (17, 49715), (20, 49679),

Gene: RoyalG_58 Start: 50712, Stop: 50428, Start Num: 2
Candidate Starts for RoyalG_58:
(1, 50922), (Start: 2 @50712 has 36 MA's), (6, 50655), (11, 50598), (14, 50544), (20, 50454),

Gene: Sam12_57 Start: 49937, Stop: 49653, Start Num: 2
Candidate Starts for Sam12_57:
(Start: 2 @49937 has 36 MA's), (6, 49880), (9, 49853), (14, 49769), (17, 49715), (20, 49679),

Gene: Sombrero_59 Start: 50504, Stop: 50220, Start Num: 2
Candidate Starts for Sombrero_59:
(Start: 2 @50504 has 36 MA's), (6, 50447), (10, 50408), (12, 50369), (15, 50318), (17, 50282), (20, 50246),

Gene: Squibbles_57 Start: 50800, Stop: 50516, Start Num: 2
Candidate Starts for Squibbles_57:
(Start: 2 @50800 has 36 MA's), (6, 50743), (9, 50716), (14, 50632), (17, 50578), (20, 50542),

Gene: SteveFrench_57 Start: 50952, Stop: 50668, Start Num: 2
Candidate Starts for SteveFrench_57:
(1, 51162), (Start: 2 @50952 has 36 MA's), (6, 50895), (11, 50838), (14, 50784), (20, 50694),

Gene: Worcestershire_58 Start: 49939, Stop: 49655, Start Num: 2
Candidate Starts for Worcestershire_58:
(Start: 2 @49939 has 36 MA's), (6, 49882), (9, 49855), (11, 49825), (14, 49771), (17, 49717), (20, 49681),