



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 223451 Report

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

Pham number 223451 has 20 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Huphlepuuff_77, Raela_76, VasuNzinga_74, Beelzebub_79, Corazon_72, Marvin_71, JoieB_76, Blackbeetle_76, RedRaider77_75, GoongGoong_72, Poise_76, FeliMaine_77, Gattaca_73, Caprice_69, Clarkson_76, Tesla_72, Pringar_73, MosMoris_72
- Track 2 : LittleLaf_75, Lilbit_75

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 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_79, Blackbeetle_76, Caprice_69, Clarkson_76, Corazon_72, FeliMaine_77, Gattaca_73, GoongGoong_72, Huphlepuuff_77, JoieB_76, Marvin_71, MosMoris_72, Poise_76, Pringar_73, Raela_76, RedRaider77_75, Tesla_72, VasuNzinga_74,

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

- Lilbit_75, LittleLaf_75,

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

-

Summary by start number:

Start 1:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Lilbit_75 (S), LittleLaf_75 (S),

Start 2:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 17

- Called 90.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_79 (S), Blackbeetle_76 (S), Caprice_69 (S), Clarkson_76 (S), Corazon_72 (S), FeliMaine_77 (S), Gattaca_73 (S), GoongGoong_72 (S), Huphlepuuff_77 (S), JoieB_76 (S), Marvin_71 (S), MosMoris_72 (S), Poise_76 (S), Pringar_73 (S), Raela_76 (S), RedRaider77_75 (S), Tesla_72 (S), VasuNzinga_74 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 1 was manually annotated 1 time for cluster S.
- Start number 2 was manually annotated 16 times for cluster S.

Gene Information:

Gene: Beelzebub_79 Start: 42080, Stop: 43006, Start Num: 2

Candidate Starts for Beelzebub_79:

(Start: 1 @42077 has 1 MA's), (Start: 2 @42080 has 16 MA's), (3, 42260), (4, 42275), (5, 42278), (6, 42320), (7, 42338), (8, 42635), (9, 42710), (10, 42752), (11, 42845), (12, 42881), (13, 42995), (14, 43001),

Gene: Blackbeetle_76 Start: 41429, Stop: 42367, Start Num: 2

Candidate Starts for Blackbeetle_76:

(Start: 1 @41426 has 1 MA's), (Start: 2 @41429 has 16 MA's), (3, 41609), (4, 41624), (5, 41627), (6, 41669), (7, 41687), (8, 41996), (9, 42071), (10, 42113), (11, 42206), (12, 42242), (13, 42356), (14, 42362),

Gene: Caprice_69 Start: 41379, Stop: 42305, Start Num: 2

Candidate Starts for Caprice_69:

(Start: 1 @41376 has 1 MA's), (Start: 2 @41379 has 16 MA's), (3, 41559), (4, 41574), (5, 41577), (6, 41619), (7, 41637), (8, 41934), (9, 42009), (10, 42051), (11, 42144), (12, 42180), (13, 42294), (14, 42300),

Gene: Clarkson_76 Start: 41760, Stop: 42686, Start Num: 2

Candidate Starts for Clarkson_76:

(Start: 1 @41757 has 1 MA's), (Start: 2 @41760 has 16 MA's), (3, 41940), (4, 41955), (5, 41958), (6, 42000), (7, 42018), (8, 42315), (9, 42390), (10, 42432), (11, 42525), (12, 42561), (13, 42675), (14, 42681),

Gene: Corazon_72 Start: 41954, Stop: 42880, Start Num: 2

Candidate Starts for Corazon_72:

(Start: 1 @41951 has 1 MA's), (Start: 2 @41954 has 16 MA's), (3, 42134), (4, 42149), (5, 42152), (6, 42194), (7, 42212), (8, 42509), (9, 42584), (10, 42626), (11, 42719), (12, 42755), (13, 42869), (14, 42875),

Gene: FeliMaine_77 Start: 42002, Stop: 42928, Start Num: 2

Candidate Starts for FeliMaine_77:

(Start: 1 @41999 has 1 MA's), (Start: 2 @42002 has 16 MA's), (3, 42182), (4, 42197), (5, 42200), (6, 42242), (7, 42260), (8, 42557), (9, 42632), (10, 42674), (11, 42767), (12, 42803), (13, 42917), (14,

42923),

Gene: Gattaca_73 Start: 41533, Stop: 42465, Start Num: 2

Candidate Starts for Gattaca_73:

(Start: 1 @41530 has 1 MA's), (Start: 2 @41533 has 16 MA's), (3, 41713), (4, 41728), (5, 41731), (6, 41773), (7, 41791), (8, 42094), (9, 42169), (10, 42211), (11, 42304), (12, 42340), (13, 42454), (14, 42460),

Gene: GoongGoong_72 Start: 41332, Stop: 42270, Start Num: 2

Candidate Starts for GoongGoong_72:

(Start: 1 @41329 has 1 MA's), (Start: 2 @41332 has 16 MA's), (3, 41512), (4, 41527), (5, 41530), (6, 41572), (7, 41590), (8, 41899), (9, 41974), (10, 42016), (11, 42109), (12, 42145), (13, 42259), (14, 42265),

Gene: Huphle puff_77 Start: 41565, Stop: 42491, Start Num: 2

Candidate Starts for Huphle puff_77:

(Start: 1 @41562 has 1 MA's), (Start: 2 @41565 has 16 MA's), (3, 41745), (4, 41760), (5, 41763), (6, 41805), (7, 41823), (8, 42120), (9, 42195), (10, 42237), (11, 42330), (12, 42366), (13, 42480), (14, 42486),

Gene: JoieB_76 Start: 42016, Stop: 42954, Start Num: 2

Candidate Starts for JoieB_76:

(Start: 1 @42013 has 1 MA's), (Start: 2 @42016 has 16 MA's), (3, 42196), (4, 42211), (5, 42214), (6, 42256), (7, 42274), (8, 42583), (9, 42658), (10, 42700), (11, 42793), (12, 42829), (13, 42943), (14, 42949),

Gene: Lilbit_75 Start: 42110, Stop: 43051, Start Num: 1

Candidate Starts for Lilbit_75:

(Start: 1 @42110 has 1 MA's), (Start: 2 @42113 has 16 MA's), (3, 42293), (4, 42308), (5, 42311), (6, 42353), (7, 42371), (8, 42680), (9, 42755), (10, 42797), (11, 42890), (12, 42926), (13, 43040), (14, 43046),

Gene: LittleLaf_75 Start: 41839, Stop: 42780, Start Num: 1

Candidate Starts for LittleLaf_75:

(Start: 1 @41839 has 1 MA's), (Start: 2 @41842 has 16 MA's), (3, 42022), (4, 42037), (5, 42040), (6, 42082), (7, 42100), (8, 42409), (9, 42484), (10, 42526), (11, 42619), (12, 42655), (13, 42769), (14, 42775),

Gene: Marvin_71 Start: 41650, Stop: 42576, Start Num: 2

Candidate Starts for Marvin_71:

(Start: 1 @41647 has 1 MA's), (Start: 2 @41650 has 16 MA's), (3, 41830), (4, 41845), (5, 41848), (6, 41890), (7, 41908), (8, 42205), (9, 42280), (10, 42322), (11, 42415), (12, 42451), (13, 42565), (14, 42571),

Gene: MosMoris_72 Start: 41533, Stop: 42471, Start Num: 2

Candidate Starts for MosMoris_72:

(Start: 1 @41530 has 1 MA's), (Start: 2 @41533 has 16 MA's), (3, 41713), (4, 41728), (5, 41731), (6, 41773), (7, 41791), (8, 42100), (9, 42175), (10, 42217), (11, 42310), (12, 42346), (13, 42460), (14, 42466),

Gene: Poise_76 Start: 41429, Stop: 42367, Start Num: 2

Candidate Starts for Poise_76:

(Start: 1 @41426 has 1 MA's), (Start: 2 @41429 has 16 MA's), (3, 41609), (4, 41624), (5, 41627), (6, 41669), (7, 41687), (8, 41996), (9, 42071), (10, 42113), (11, 42206), (12, 42242), (13, 42356), (14, 42362),

Gene: Pringar_73 Start: 41366, Stop: 42292, Start Num: 2

Candidate Starts for Pringar_73:

(Start: 1 @41363 has 1 MA's), (Start: 2 @41366 has 16 MA's), (3, 41546), (4, 41561), (5, 41564), (6, 41606), (7, 41624), (8, 41921), (9, 41996), (10, 42038), (11, 42131), (12, 42167), (13, 42281), (14, 42287),

Gene: Raela_76 Start: 41986, Stop: 42918, Start Num: 2

Candidate Starts for Raela_76:

(Start: 1 @41983 has 1 MA's), (Start: 2 @41986 has 16 MA's), (3, 42166), (4, 42181), (5, 42184), (6, 42226), (7, 42244), (8, 42547), (9, 42622), (10, 42664), (11, 42757), (12, 42793), (13, 42907), (14, 42913),

Gene: RedRaider77_75 Start: 41374, Stop: 42312, Start Num: 2

Candidate Starts for RedRaider77_75:

(Start: 1 @41371 has 1 MA's), (Start: 2 @41374 has 16 MA's), (3, 41554), (4, 41569), (5, 41572), (6, 41614), (7, 41632), (8, 41941), (9, 42016), (10, 42058), (11, 42151), (12, 42187), (13, 42301), (14, 42307),

Gene: Tesla_72 Start: 41223, Stop: 42161, Start Num: 2

Candidate Starts for Tesla_72:

(Start: 1 @41220 has 1 MA's), (Start: 2 @41223 has 16 MA's), (3, 41403), (4, 41418), (5, 41421), (6, 41463), (7, 41481), (8, 41790), (9, 41865), (10, 41907), (11, 42000), (12, 42036), (13, 42150), (14, 42156),

Gene: VasuNzinga_74 Start: 41324, Stop: 42250, Start Num: 2

Candidate Starts for VasuNzinga_74:

(Start: 1 @41321 has 1 MA's), (Start: 2 @41324 has 16 MA's), (3, 41504), (4, 41519), (5, 41522), (6, 41564), (7, 41582), (8, 41879), (9, 41954), (10, 41996), (11, 42089), (12, 42125), (13, 42239), (14, 42245),