



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 203320 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203320 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:

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### **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),