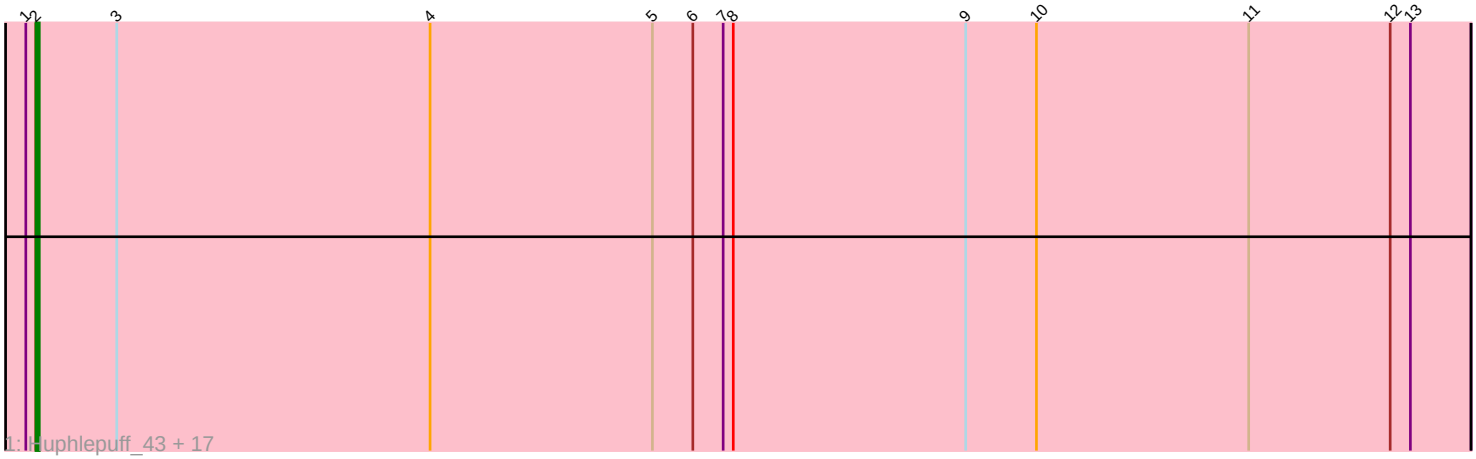
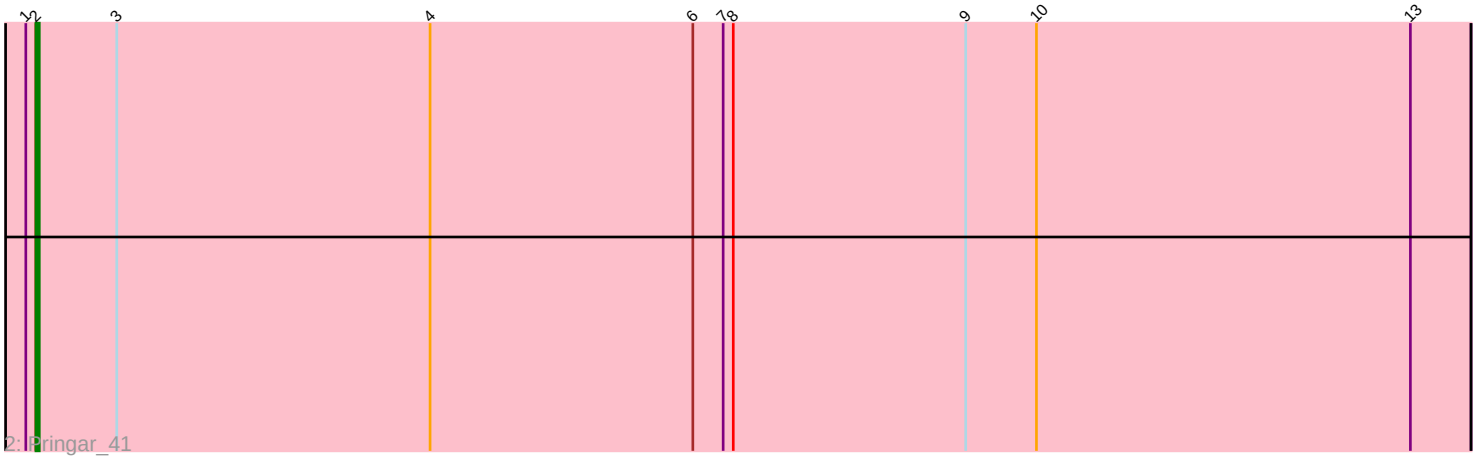
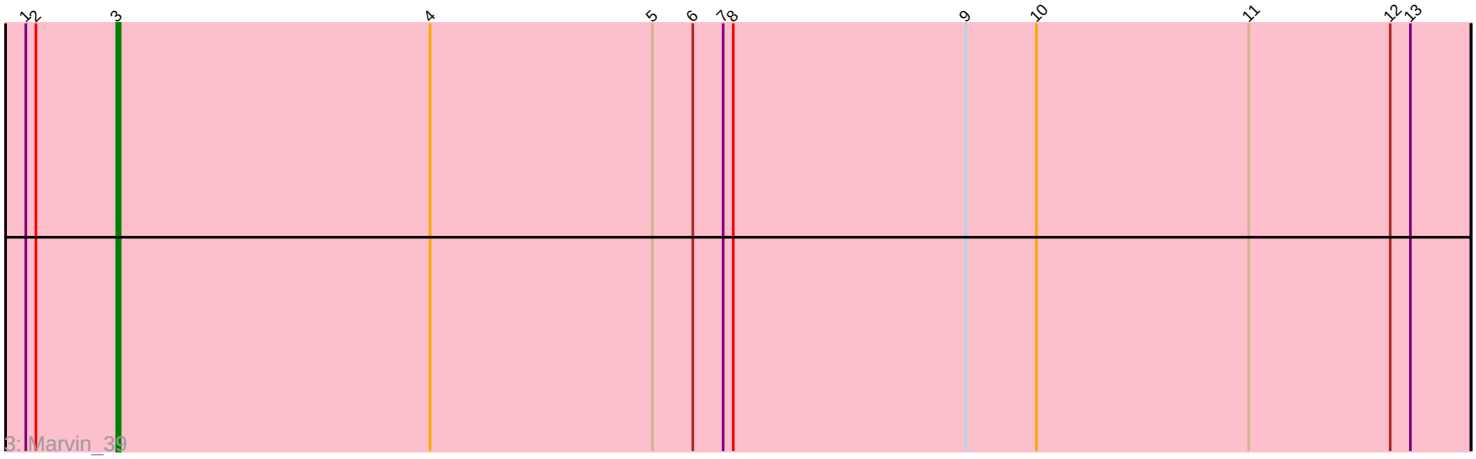
Pham 342578


1
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1: Hufflepuff_43 + 17


1
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2: Bringar_41


1
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3: Marvin_39

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 342578 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342578 has 20 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Huphlepuff_43, Clarkson_42, Blackbeetle_41, VasuNzinga_41, LittleLaf_41, JoieB_42, GoongGoong_40, MosMoris_39, Caprice_40, Gattaca_40, Beelzebub_45, Corazon_39, Tesla_40, FeliMaine_43, RedRaider77_41, Lilbit_40, Raela_41, Poise_41
• Track 2 : Pringar_41
• Track 3 : Marvin_39

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 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beelzebub_45, Blackbeetle_41, Caprice_40, Clarkson_42, Corazon_39, FeliMaine_43, Gattaca_40, GoongGoong_40, Huphlepuff_43, JoieB_42, Lilbit_40, LittleLaf_41, MosMoris_39, Poise_41, Pringar_41, Raela_41, RedRaider77_41, Tesla_40, VasuNzinga_41,

Genes that have the "Most Annotated" start but do not call it:
• Marvin_39,

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

Summary by start number:

Start 2:
• Found in 20 of 20 (100.0%) of genes in pham
• Manual Annotations of this start: 19 of 20
• Called 95.0% of time when present
• Phage (with cluster) where this start called: Beelzebub_45 (S), Blackbeetle_41 (S), Caprice_40 (S), Clarkson_42 (S), Corazon_39 (S), FeliMaine_43 (S), Gattaca_40 (S), GoongGoong_40 (S), Huphlepuff_43 (S), JoieB_42 (S), Lilbit_40 (S), LittleLaf_41 (S), MosMoris_39 (S), Poise_41 (S), Pringar_41 (S), Raela_41 (S), RedRaider77_41 (S),

Tesla_40 (S), VasuNzinga_41 (S),

Start 3:
• Found in 20 of 20 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 5.0% of time when present
• Phage (with cluster) where this start called: Marvin_39 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:
•Start number 2 was manually annotated 19 times for cluster S.
•Start number 3 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Beelzebub_45 Start: 17697, Stop: 18122, Start Num: 2
Candidate Starts for Beelzebub_45:
(1, 17694), (Start: 2 @17697 has 19 MA's), (Start: 3 @17721 has 1 MA's), (4, 17814), (5, 17880), (6, 17892), (7, 17901), (8, 17904), (9, 17973), (10, 17994), (11, 18057), (12, 18099), (13, 18105),

Gene: Blackbeetle_41 Start: 16716, Stop: 17141, Start Num: 2
Candidate Starts for Blackbeetle_41:
(1, 16713), (Start: 2 @16716 has 19 MA's), (Start: 3 @16740 has 1 MA's), (4, 16833), (5, 16899), (6, 16911), (7, 16920), (8, 16923), (9, 16992), (10, 17013), (11, 17076), (12, 17118), (13, 17124),

Gene: Caprice_40 Start: 16786, Stop: 17211, Start Num: 2
Candidate Starts for Caprice_40:
(1, 16783), (Start: 2 @16786 has 19 MA's), (Start: 3 @16810 has 1 MA's), (4, 16903), (5, 16969), (6, 16981), (7, 16990), (8, 16993), (9, 17062), (10, 17083), (11, 17146), (12, 17188), (13, 17194),

Gene: Clarkson_42 Start: 17398, Stop: 17823, Start Num: 2
Candidate Starts for Clarkson_42:
(1, 17395), (Start: 2 @17398 has 19 MA's), (Start: 3 @17422 has 1 MA's), (4, 17515), (5, 17581), (6, 17593), (7, 17602), (8, 17605), (9, 17674), (10, 17695), (11, 17758), (12, 17800), (13, 17806),

Gene: Corazon_39 Start: 17351, Stop: 17776, Start Num: 2
Candidate Starts for Corazon_39:
(1, 17348), (Start: 2 @17351 has 19 MA's), (Start: 3 @17375 has 1 MA's), (4, 17468), (5, 17534), (6, 17546), (7, 17555), (8, 17558), (9, 17627), (10, 17648), (11, 17711), (12, 17753), (13, 17759),

Gene: FeliMaine_43 Start: 17399, Stop: 17824, Start Num: 2
Candidate Starts for FeliMaine_43:
(1, 17396), (Start: 2 @17399 has 19 MA's), (Start: 3 @17423 has 1 MA's), (4, 17516), (5, 17582), (6, 17594), (7, 17603), (8, 17606), (9, 17675), (10, 17696), (11, 17759), (12, 17801), (13, 17807),

Gene: Gattaca_40 Start: 16578, Stop: 17003, Start Num: 2
Candidate Starts for Gattaca_40:

(1, 16575), (Start: 2 @16578 has 19 MA's), (Start: 3 @16602 has 1 MA's), (4, 16695), (5, 16761), (6, 16773), (7, 16782), (8, 16785), (9, 16854), (10, 16875), (11, 16938), (12, 16980), (13, 16986),

Gene: GoongGoong_40 Start: 16618, Stop: 17043, Start Num: 2
Candidate Starts for GoongGoong_40:
(1, 16615), (Start: 2 @16618 has 19 MA's), (Start: 3 @16642 has 1 MA's), (4, 16735), (5, 16801), (6, 16813), (7, 16822), (8, 16825), (9, 16894), (10, 16915), (11, 16978), (12, 17020), (13, 17026),

Gene: Huphlepuff_43 Start: 17203, Stop: 17628, Start Num: 2
Candidate Starts for Huphlepuff_43:
(1, 17200), (Start: 2 @17203 has 19 MA's), (Start: 3 @17227 has 1 MA's), (4, 17320), (5, 17386), (6, 17398), (7, 17407), (8, 17410), (9, 17479), (10, 17500), (11, 17563), (12, 17605), (13, 17611),

Gene: JoieB_42 Start: 17422, Stop: 17847, Start Num: 2
Candidate Starts for JoieB_42:
(1, 17419), (Start: 2 @17422 has 19 MA's), (Start: 3 @17446 has 1 MA's), (4, 17539), (5, 17605), (6, 17617), (7, 17626), (8, 17629), (9, 17698), (10, 17719), (11, 17782), (12, 17824), (13, 17830),

Gene: Lilbit_40 Start: 17399, Stop: 17824, Start Num: 2
Candidate Starts for Lilbit_40:
(1, 17396), (Start: 2 @17399 has 19 MA's), (Start: 3 @17423 has 1 MA's), (4, 17516), (5, 17582), (6, 17594), (7, 17603), (8, 17606), (9, 17675), (10, 17696), (11, 17759), (12, 17801), (13, 17807),

Gene: LittleLaf_41 Start: 17128, Stop: 17553, Start Num: 2
Candidate Starts for LittleLaf_41:
(1, 17125), (Start: 2 @17128 has 19 MA's), (Start: 3 @17152 has 1 MA's), (4, 17245), (5, 17311), (6, 17323), (7, 17332), (8, 17335), (9, 17404), (10, 17425), (11, 17488), (12, 17530), (13, 17536),

Gene: Marvin_39 Start: 17422, Stop: 17823, Start Num: 3
Candidate Starts for Marvin_39:
(1, 17395), (Start: 2 @17398 has 19 MA's), (Start: 3 @17422 has 1 MA's), (4, 17515), (5, 17581), (6, 17593), (7, 17602), (8, 17605), (9, 17674), (10, 17695), (11, 17758), (12, 17800), (13, 17806),

Gene: MosMoris_39 Start: 16578, Stop: 17003, Start Num: 2
Candidate Starts for MosMoris_39:
(1, 16575), (Start: 2 @16578 has 19 MA's), (Start: 3 @16602 has 1 MA's), (4, 16695), (5, 16761), (6, 16773), (7, 16782), (8, 16785), (9, 16854), (10, 16875), (11, 16938), (12, 16980), (13, 16986),

Gene: Poise_41 Start: 16716, Stop: 17141, Start Num: 2
Candidate Starts for Poise_41:
(1, 16713), (Start: 2 @16716 has 19 MA's), (Start: 3 @16740 has 1 MA's), (4, 16833), (5, 16899), (6, 16911), (7, 16920), (8, 16923), (9, 16992), (10, 17013), (11, 17076), (12, 17118), (13, 17124),

Gene: Pringar_41 Start: 17028, Stop: 17453, Start Num: 2
Candidate Starts for Pringar_41:
(1, 17025), (Start: 2 @17028 has 19 MA's), (Start: 3 @17052 has 1 MA's), (4, 17145), (6, 17223), (7, 17232), (8, 17235), (9, 17304), (10, 17325), (13, 17436),

Gene: Raela_41 Start: 17271, Stop: 17696, Start Num: 2
Candidate Starts for Raela_41:
(1, 17268), (Start: 2 @17271 has 19 MA's), (Start: 3 @17295 has 1 MA's), (4, 17388), (5, 17454), (6, 17466), (7, 17475), (8, 17478), (9, 17547), (10, 17568), (11, 17631), (12, 17673), (13, 17679),

Gene: RedRaider77_41 Start: 17172, Stop: 17597, Start Num: 2
Candidate Starts for RedRaider77_41:
(1, 17169), (Start: 2 @17172 has 19 MA's), (Start: 3 @17196 has 1 MA's), (4, 17289), (5, 17355), (6, 17367), (7, 17376), (8, 17379), (9, 17448), (10, 17469), (11, 17532), (12, 17574), (13, 17580),

Gene: Tesla_40 Start: 17021, Stop: 17446, Start Num: 2
Candidate Starts for Tesla_40:
(1, 17018), (Start: 2 @17021 has 19 MA's), (Start: 3 @17045 has 1 MA's), (4, 17138), (5, 17204), (6, 17216), (7, 17225), (8, 17228), (9, 17297), (10, 17318), (11, 17381), (12, 17423), (13, 17429),

Gene: VasuNzinga_41 Start: 16605, Stop: 17030, Start Num: 2
Candidate Starts for VasuNzinga_41:
(1, 16602), (Start: 2 @16605 has 19 MA's), (Start: 3 @16629 has 1 MA's), (4, 16722), (5, 16788), (6, 16800), (7, 16809), (8, 16812), (9, 16881), (10, 16902), (11, 16965), (12, 17007), (13, 17013),