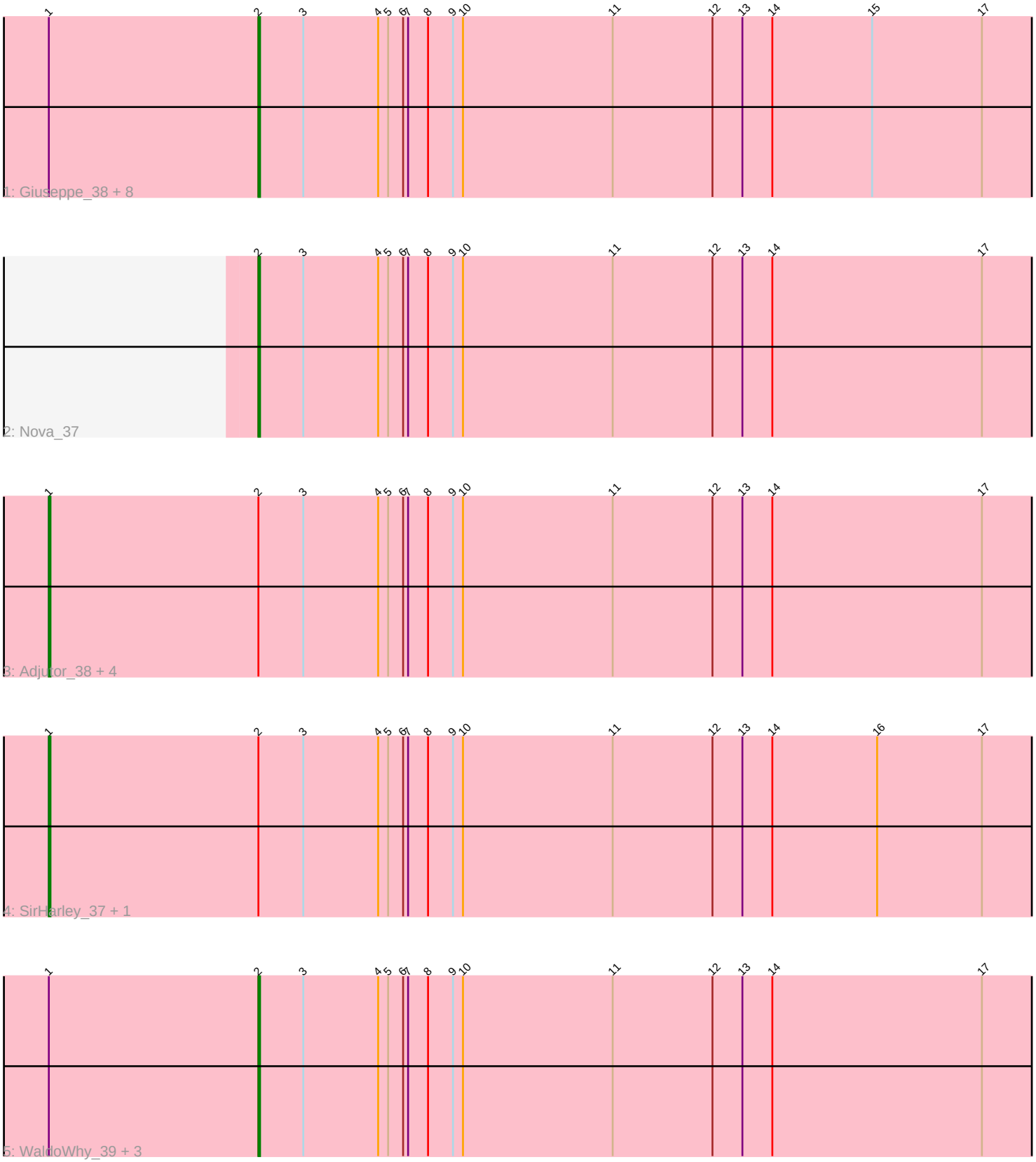
Pham 2769


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17
1: Giuseppe_38 + 8
2 3 4 5 6 7 8 9 10 11 12 13 14 17
2: Nova_37
1 2 3 4 5 6 7 8 9 10 11 12 13 14 17
3: Adjutor_38 + 4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17
4: SirHarley_37 + 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 17
5: WaldoWhy_39 + 3

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 2769 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2769 has 21 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Giuseppe_38, Prager_38, Mopey_38, Penelope2018_38, BigMama_36, Helpful_39, Troll4_38, Visconti_38, Delton_38
• Track 2 : Nova_37
• Track 3 : Adjutor_38, PLot_38, Butterscotch_37, Erk16_37, PBI1_37
• Track 4 : SirHarley_37, Gumball_36
• Track 5 : WaldoWhy_39, KandZ_38, Chill_39, Thoth_38

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

Genes that call this "Most Annotated" start:
• BigMama_36, Chill_39, Delton_38, Giuseppe_38, Helpful_39, KandZ_38, Mopey_38, Nova_37, Penelope2018_38, Prager_38, Thoth_38, Troll4_38, Visconti_38, WaldoWhy_39,

Genes that have the "Most Annotated" start but do not call it:
• Adjutor_38, Butterscotch_37, Erk16_37, Gumball_36, PBI1_37, PLot_38, SirHarley_37,

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

Summary by start number:

Start 1:
• Found in 20 of 21 (95.2%) of genes in pham
• Manual Annotations of this start: 7 of 20
• Called 35.0% of time when present
• Phage (with cluster) where this start called: Adjutor_38 (D1), Butterscotch_37 (D1), Erk16_37 (D1), Gumball_36 (D1), PBI1_37 (D1), PLot_38 (D1), SirHarley_37 (D1),

Start 2:

• Found in 21 of 21 (100.0%) of genes in pham
• Manual Annotations of this start: 13 of 20
• Called 66.7% of time when present
• Phage (with cluster) where this start called: BigMama_36 (D1), Chill_39 (D1), Delton_38 (D1), Giuseppe_38 (D1), Helpful_39 (D1), KandZ_38 (D1), Mopey_38 (D1), Nova_37 (D1), Penelope2018_38 (D1), Prager_38 (D1), Thoth_38 (D1), Troll4_38 (D1), Visconti_38 (D1), WaldoWhy_39 (D1),

Summary by clusters:

There is one cluster represented in this pham: D1

Info for manual annotations of cluster D1:
•Start number 1 was manually annotated 7 times for cluster D1.
•Start number 2 was manually annotated 13 times for cluster D1.

Gene Information:

Gene: Adjutor_38 Start: 31589, Stop: 32254, Start Num: 1
Candidate Starts for Adjutor_38:
(Start: 1 @31589 has 7 MA's), (Start: 2 @31715 has 13 MA's), (3, 31742), (4, 31787), (5, 31793), (6, 31802), (7, 31805), (8, 31817), (9, 31832), (10, 31838), (11, 31928), (12, 31988), (13, 32006), (14, 32024), (17, 32150),

Gene: BigMama_36 Start: 31791, Stop: 32330, Start Num: 2
Candidate Starts for BigMama_36:
(Start: 1 @31665 has 7 MA's), (Start: 2 @31791 has 13 MA's), (3, 31818), (4, 31863), (5, 31869), (6, 31878), (7, 31881), (8, 31893), (9, 31908), (10, 31914), (11, 32004), (12, 32064), (13, 32082), (14, 32100), (15, 32160), (17, 32226),

Gene: Butterscotch_37 Start: 31649, Stop: 32314, Start Num: 1
Candidate Starts for Butterscotch_37:
(Start: 1 @31649 has 7 MA's), (Start: 2 @31775 has 13 MA's), (3, 31802), (4, 31847), (5, 31853), (6, 31862), (7, 31865), (8, 31877), (9, 31892), (10, 31898), (11, 31988), (12, 32048), (13, 32066), (14, 32084), (17, 32210),

Gene: Chill_39 Start: 31781, Stop: 32320, Start Num: 2
Candidate Starts for Chill_39:
(Start: 1 @31655 has 7 MA's), (Start: 2 @31781 has 13 MA's), (3, 31808), (4, 31853), (5, 31859), (6, 31868), (7, 31871), (8, 31883), (9, 31898), (10, 31904), (11, 31994), (12, 32054), (13, 32072), (14, 32090), (17, 32216),

Gene: Delton_38 Start: 31787, Stop: 32326, Start Num: 2
Candidate Starts for Delton_38:
(Start: 1 @31661 has 7 MA's), (Start: 2 @31787 has 13 MA's), (3, 31814), (4, 31859), (5, 31865), (6, 31874), (7, 31877), (8, 31889), (9, 31904), (10, 31910), (11, 32000), (12, 32060), (13, 32078), (14, 32096), (15, 32156), (17, 32222),

Gene: Erk16_37 Start: 31658, Stop: 32323, Start Num: 1
Candidate Starts for Erk16_37:

(Start: 1 @31658 has 7 MA's), (Start: 2 @31784 has 13 MA's), (3, 31811), (4, 31856), (5, 31862), (6, 31871), (7, 31874), (8, 31886), (9, 31901), (10, 31907), (11, 31997), (12, 32057), (13, 32075), (14, 32093), (17, 32219),

Gene: Giuseppe_38 Start: 31776, Stop: 32315, Start Num: 2
Candidate Starts for Giuseppe_38:
(Start: 1 @31650 has 7 MA's), (Start: 2 @31776 has 13 MA's), (3, 31803), (4, 31848), (5, 31854), (6, 31863), (7, 31866), (8, 31878), (9, 31893), (10, 31899), (11, 31989), (12, 32049), (13, 32067), (14, 32085), (15, 32145), (17, 32211),

Gene: Gumball_36 Start: 31599, Stop: 32264, Start Num: 1
Candidate Starts for Gumball_36:
(Start: 1 @31599 has 7 MA's), (Start: 2 @31725 has 13 MA's), (3, 31752), (4, 31797), (5, 31803), (6, 31812), (7, 31815), (8, 31827), (9, 31842), (10, 31848), (11, 31938), (12, 31998), (13, 32016), (14, 32034), (16, 32097), (17, 32160),

Gene: Helpful_39 Start: 31775, Stop: 32314, Start Num: 2
Candidate Starts for Helpful_39:
(Start: 1 @31649 has 7 MA's), (Start: 2 @31775 has 13 MA's), (3, 31802), (4, 31847), (5, 31853), (6, 31862), (7, 31865), (8, 31877), (9, 31892), (10, 31898), (11, 31988), (12, 32048), (13, 32066), (14, 32084), (15, 32144), (17, 32210),

Gene: KandZ_38 Start: 31875, Stop: 32414, Start Num: 2
Candidate Starts for KandZ_38:
(Start: 1 @31749 has 7 MA's), (Start: 2 @31875 has 13 MA's), (3, 31902), (4, 31947), (5, 31953), (6, 31962), (7, 31965), (8, 31977), (9, 31992), (10, 31998), (11, 32088), (12, 32148), (13, 32166), (14, 32184), (17, 32310),

Gene: Mopey_38 Start: 31775, Stop: 32314, Start Num: 2
Candidate Starts for Mopey_38:
(Start: 1 @31649 has 7 MA's), (Start: 2 @31775 has 13 MA's), (3, 31802), (4, 31847), (5, 31853), (6, 31862), (7, 31865), (8, 31877), (9, 31892), (10, 31898), (11, 31988), (12, 32048), (13, 32066), (14, 32084), (15, 32144), (17, 32210),

Gene: Nova_37 Start: 32201, Stop: 32740, Start Num: 2
Candidate Starts for Nova_37:
(Start: 2 @32201 has 13 MA's), (3, 32228), (4, 32273), (5, 32279), (6, 32288), (7, 32291), (8, 32303), (9, 32318), (10, 32324), (11, 32414), (12, 32474), (13, 32492), (14, 32510), (17, 32636),

Gene: PBI1_37 Start: 31580, Stop: 32245, Start Num: 1
Candidate Starts for PBI1_37:
(Start: 1 @31580 has 7 MA's), (Start: 2 @31706 has 13 MA's), (3, 31733), (4, 31778), (5, 31784), (6, 31793), (7, 31796), (8, 31808), (9, 31823), (10, 31829), (11, 31919), (12, 31979), (13, 31997), (14, 32015), (17, 32141),

Gene: PLot_38 Start: 31652, Stop: 32317, Start Num: 1
Candidate Starts for PLot_38:
(Start: 1 @31652 has 7 MA's), (Start: 2 @31778 has 13 MA's), (3, 31805), (4, 31850), (5, 31856), (6, 31865), (7, 31868), (8, 31880), (9, 31895), (10, 31901), (11, 31991), (12, 32051), (13, 32069), (14, 32087), (17, 32213),

Gene: Penelope2018_38 Start: 31775, Stop: 32314, Start Num: 2
Candidate Starts for Penelope2018_38:

(Start: 1 @31649 has 7 MA's), (Start: 2 @31775 has 13 MA's), (3, 31802), (4, 31847), (5, 31853), (6, 31862), (7, 31865), (8, 31877), (9, 31892), (10, 31898), (11, 31988), (12, 32048), (13, 32066), (14, 32084), (15, 32144), (17, 32210),

Gene: Prager_38 Start: 31787, Stop: 32326, Start Num: 2
Candidate Starts for Prager_38:
(Start: 1 @31661 has 7 MA's), (Start: 2 @31787 has 13 MA's), (3, 31814), (4, 31859), (5, 31865), (6, 31874), (7, 31877), (8, 31889), (9, 31904), (10, 31910), (11, 32000), (12, 32060), (13, 32078), (14, 32096), (15, 32156), (17, 32222),

Gene: SirHarley_37 Start: 31581, Stop: 32246, Start Num: 1
Candidate Starts for SirHarley_37:
(Start: 1 @31581 has 7 MA's), (Start: 2 @31707 has 13 MA's), (3, 31734), (4, 31779), (5, 31785), (6, 31794), (7, 31797), (8, 31809), (9, 31824), (10, 31830), (11, 31920), (12, 31980), (13, 31998), (14, 32016), (16, 32079), (17, 32142),

Gene: Thoth_38 Start: 31772, Stop: 32311, Start Num: 2
Candidate Starts for Thoth_38:
(Start: 1 @31646 has 7 MA's), (Start: 2 @31772 has 13 MA's), (3, 31799), (4, 31844), (5, 31850), (6, 31859), (7, 31862), (8, 31874), (9, 31889), (10, 31895), (11, 31985), (12, 32045), (13, 32063), (14, 32081), (17, 32207),

Gene: Troll4_38 Start: 31776, Stop: 32315, Start Num: 2
Candidate Starts for Troll4_38:
(Start: 1 @31650 has 7 MA's), (Start: 2 @31776 has 13 MA's), (3, 31803), (4, 31848), (5, 31854), (6, 31863), (7, 31866), (8, 31878), (9, 31893), (10, 31899), (11, 31989), (12, 32049), (13, 32067), (14, 32085), (15, 32145), (17, 32211),

Gene: Visconti_38 Start: 31785, Stop: 32324, Start Num: 2
Candidate Starts for Visconti_38:
(Start: 1 @31659 has 7 MA's), (Start: 2 @31785 has 13 MA's), (3, 31812), (4, 31857), (5, 31863), (6, 31872), (7, 31875), (8, 31887), (9, 31902), (10, 31908), (11, 31998), (12, 32058), (13, 32076), (14, 32094), (15, 32154), (17, 32220),

Gene: WaldoWhy_39 Start: 31781, Stop: 32320, Start Num: 2
Candidate Starts for WaldoWhy_39:
(Start: 1 @31655 has 7 MA's), (Start: 2 @31781 has 13 MA's), (3, 31808), (4, 31853), (5, 31859), (6, 31868), (7, 31871), (8, 31883), (9, 31898), (10, 31904), (11, 31994), (12, 32054), (13, 32072), (14, 32090), (17, 32216),