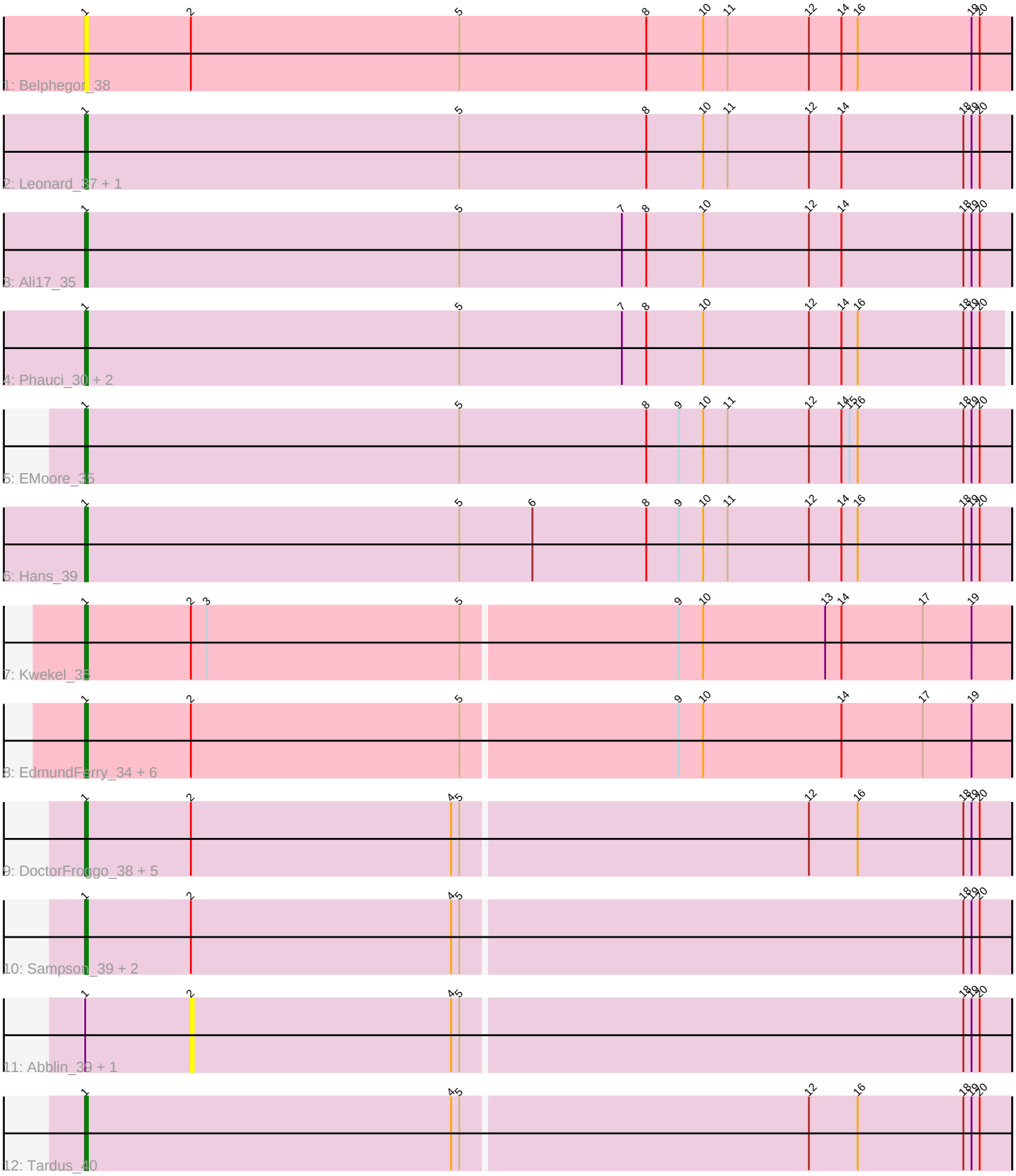
Pham 77218


1: Belphegor_38
2: Leonard_37 + 1
3: Ali17_35
4: Phauci_30 + 2
5: EMoore_35
6: Hans_39
7: Kwekel_36
8: EdmundFerry_34 + 6
9: DoctorFroggo_38 + 5
10: Sampson_39 + 2
11: Abblin_39 + 1
12: Tardus_40

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 77218 Report

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

Pham number 77218 has 29 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Belphegor_38
• Track 2 : Leonard_37, Phinally_37
• Track 3 : Ali17_35
• Track 4 : Phauci_30, Inspectinfecti_38, MelBins_38
• Track 5 : EMoore_35
• Track 6 : Hans_39
• Track 7 : Kwekel_35
• Track 8 : EdmundFerry_34, GTE6_35, RoadKill_33, Tiamoceli_36, Dexdert_36, Chickadee_35, Twonlo_33
• Track 9 : DoctorFroggo_38, Zitch_40, Zipp_38, APunk_40, Verity_38, Delrey21_38
• Track 10 : Sampson_39, Scioto_39, ViaConlectus_39
• Track 11 : Abblin_39, Natkenzie_39
• Track 12 : Tardus_40

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

The start number called the most often in the published annotations is 1, it was called in 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• APunk_40, Ali17_35, Belphegor_38, Chickadee_35, Delrey21_38, Dexdert_36, DoctorFroggo_38, EMoore_35, EdmundFerry_34, GTE6_35, Hans_39, Inspectinfecti_38, Kwekel_35, Leonard_37, MelBins_38, Phauci_30, Phinally_37, RoadKill_33, Sampson_39, Scioto_39, Tardus_40, Tiamoceli_36, Twonlo_33, Verity_38, ViaConlectus_39, Zipp_38, Zitch_40,

Genes that have the "Most Annotated" start but do not call it:
• Abblin_39, Natkenzie_39,

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

Summary by start number:

Start 1:
• Found in 29 of 29 (100.0%) of genes in pham
• Manual Annotations of this start: 22 of 22
• Called 93.1% of time when present
• Phage (with cluster) where this start called: APunk_40 (DE4), Ali17_35 (DE2), Belphegor_38 (DE), Chickadee_35 (DE3), Delrey21_38 (DE4), Dexdert_36 (DE3), DoctorFroggo_38 (DE4), EMoore_35 (DE2), EdmundFerry_34 (DE3), GTE6_35 (DE3), Hans_39 (DE2), Inspectinfecti_38 (DE2), Kwekel_35 (DE3), Leonard_37 (DE2), MelBins_38 (DE2), Phauci_30 (DE2), Phinally_37 (DE2), RoadKill_33 (DE3), Sampson_39 (DE4), Scioto_39 (DE4), Tardus_40 (DE4), Tiamoceli_36 (DE3), Twonlo_33 (DE3), Verity_38 (DE4), ViaConlectus_39 (DE4), Zipp_38 (DE4), Zitch_40 (DE4),

Start 2:
• Found in 20 of 29 (69.0%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Abblin_39 (DE4), Natkenzie_39 (DE4),

Summary by clusters:

There are 4 clusters represented in this pham: DE2, DE3, DE4, DE,

Info for manual annotations of cluster DE2:
•Start number 1 was manually annotated 7 times for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 1 was manually annotated 6 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 1 was manually annotated 9 times for cluster DE4.

Gene Information:

Gene: APunk_40 Start: 33883, Stop: 34221, Start Num: 1
Candidate Starts for APunk_40:
(Start: 1 @33883 has 22 MA's), (2, 33922), (4, 34018), (5, 34021), (12, 34147), (16, 34165), (18, 34204), (19, 34207), (20, 34210),

Gene: Abblin_39 Start: 34465, Stop: 34764, Start Num: 2
Candidate Starts for Abblin_39:
(Start: 1 @34426 has 22 MA's), (2, 34465), (4, 34561), (5, 34564), (18, 34747), (19, 34750), (20, 34753),

Gene: Ali17_35 Start: 32159, Stop: 32500, Start Num: 1
Candidate Starts for Ali17_35:
(Start: 1 @32159 has 22 MA's), (5, 32297), (7, 32357), (8, 32366), (10, 32387), (12, 32426), (14, 32438), (18, 32483), (19, 32486), (20, 32489),

Gene: Belphegor_38 Start: 34349, Stop: 34690, Start Num: 1

Candidate Starts for Belphegor_38:
(Start: 1 @34349 has 22 MA's), (2, 34388), (5, 34487), (8, 34556), (10, 34577), (11, 34586), (12, 34616), (14, 34628), (16, 34634), (19, 34676), (20, 34679),

Gene: Chickadee_35 Start: 31176, Stop: 31514, Start Num: 1
Candidate Starts for Chickadee_35:
(Start: 1 @31176 has 22 MA's), (2, 31215), (5, 31314), (9, 31392), (10, 31401), (14, 31452), (17, 31482), (19, 31500),

Gene: Delrey21_38 Start: 34613, Stop: 34951, Start Num: 1
Candidate Starts for Delrey21_38:
(Start: 1 @34613 has 22 MA's), (2, 34652), (4, 34748), (5, 34751), (12, 34877), (16, 34895), (18, 34934), (19, 34937), (20, 34940),

Gene: Dexdert_36 Start: 31619, Stop: 31957, Start Num: 1
Candidate Starts for Dexdert_36:
(Start: 1 @31619 has 22 MA's), (2, 31658), (5, 31757), (9, 31835), (10, 31844), (14, 31895), (17, 31925), (19, 31943),

Gene: DoctorFroggo_38 Start: 34613, Stop: 34951, Start Num: 1
Candidate Starts for DoctorFroggo_38:
(Start: 1 @34613 has 22 MA's), (2, 34652), (4, 34748), (5, 34751), (12, 34877), (16, 34895), (18, 34934), (19, 34937), (20, 34940),

Gene: EMoore_35 Start: 33331, Stop: 33672, Start Num: 1
Candidate Starts for EMoore_35:
(Start: 1 @33331 has 22 MA's), (5, 33469), (8, 33538), (9, 33550), (10, 33559), (11, 33568), (12, 33598), (14, 33610), (15, 33613), (16, 33616), (18, 33655), (19, 33658), (20, 33661),

Gene: EdmundFerry_34 Start: 31205, Stop: 31543, Start Num: 1
Candidate Starts for EdmundFerry_34:
(Start: 1 @31205 has 22 MA's), (2, 31244), (5, 31343), (9, 31421), (10, 31430), (14, 31481), (17, 31511), (19, 31529),

Gene: GTE6_35 Start: 31697, Stop: 32035, Start Num: 1
Candidate Starts for GTE6_35:
(Start: 1 @31697 has 22 MA's), (2, 31736), (5, 31835), (9, 31913), (10, 31922), (14, 31973), (17, 32003), (19, 32021),

Gene: Hans_39 Start: 32799, Stop: 33140, Start Num: 1
Candidate Starts for Hans_39:
(Start: 1 @32799 has 22 MA's), (5, 32937), (6, 32964), (8, 33006), (9, 33018), (10, 33027), (11, 33036), (12, 33066), (14, 33078), (16, 33084), (18, 33123), (19, 33126), (20, 33129),

Gene: Inspectinfecti_38 Start: 33245, Stop: 33586, Start Num: 1
Candidate Starts for Inspectinfecti_38:
(Start: 1 @33245 has 22 MA's), (5, 33383), (7, 33443), (8, 33452), (10, 33473), (12, 33512), (14, 33524), (16, 33530), (18, 33569), (19, 33572), (20, 33575),

Gene: Kwekel_35 Start: 31134, Stop: 31472, Start Num: 1
Candidate Starts for Kwekel_35:
(Start: 1 @31134 has 22 MA's), (2, 31173), (3, 31179), (5, 31272), (9, 31350), (10, 31359), (13, 31404), (14, 31410), (17, 31440), (19, 31458),

Gene: Leonard_37 Start: 32881, Stop: 33222, Start Num: 1
Candidate Starts for Leonard_37:
(Start: 1 @32881 has 22 MA's), (5, 33019), (8, 33088), (10, 33109), (11, 33118), (12, 33148), (14, 33160), (18, 33205), (19, 33208), (20, 33211),

Gene: MelBins_38 Start: 33030, Stop: 33371, Start Num: 1
Candidate Starts for MelBins_38:
(Start: 1 @33030 has 22 MA's), (5, 33168), (7, 33228), (8, 33237), (10, 33258), (12, 33297), (14, 33309), (16, 33315), (18, 33354), (19, 33357), (20, 33360),

Gene: Natkenzie_39 Start: 34465, Stop: 34764, Start Num: 2
Candidate Starts for Natkenzie_39:
(Start: 1 @34426 has 22 MA's), (2, 34465), (4, 34561), (5, 34564), (18, 34747), (19, 34750), (20, 34753),

Gene: Phauci_30 Start: 29470, Stop: 29808, Start Num: 1
Candidate Starts for Phauci_30:
(Start: 1 @29470 has 22 MA's), (5, 29608), (7, 29668), (8, 29677), (10, 29698), (12, 29737), (14, 29749), (16, 29755), (18, 29794), (19, 29797), (20, 29800),

Gene: Phinally_37 Start: 32878, Stop: 33219, Start Num: 1
Candidate Starts for Phinally_37:
(Start: 1 @32878 has 22 MA's), (5, 33016), (8, 33085), (10, 33106), (11, 33115), (12, 33145), (14, 33157), (18, 33202), (19, 33205), (20, 33208),

Gene: RoadKill_33 Start: 30700, Stop: 31038, Start Num: 1
Candidate Starts for RoadKill_33:
(Start: 1 @30700 has 22 MA's), (2, 30739), (5, 30838), (9, 30916), (10, 30925), (14, 30976), (17, 31006), (19, 31024),

Gene: Sampson_39 Start: 34371, Stop: 34709, Start Num: 1
Candidate Starts for Sampson_39:
(Start: 1 @34371 has 22 MA's), (2, 34410), (4, 34506), (5, 34509), (18, 34692), (19, 34695), (20, 34698),

Gene: Scioto_39 Start: 34426, Stop: 34764, Start Num: 1
Candidate Starts for Scioto_39:
(Start: 1 @34426 has 22 MA's), (2, 34465), (4, 34561), (5, 34564), (18, 34747), (19, 34750), (20, 34753),

Gene: Tardus_40 Start: 33790, Stop: 34128, Start Num: 1
Candidate Starts for Tardus_40:
(Start: 1 @33790 has 22 MA's), (4, 33925), (5, 33928), (12, 34054), (16, 34072), (18, 34111), (19, 34114), (20, 34117),

Gene: Tiamoceli_36 Start: 32033, Stop: 32371, Start Num: 1
Candidate Starts for Tiamoceli_36:
(Start: 1 @32033 has 22 MA's), (2, 32072), (5, 32171), (9, 32249), (10, 32258), (14, 32309), (17, 32339), (19, 32357),

Gene: Twonlo_33 Start: 30651, Stop: 30989, Start Num: 1
Candidate Starts for Twonlo_33:

(Start: 1 @30651 has 22 MA's), (2, 30690), (5, 30789), (9, 30867), (10, 30876), (14, 30927), (17, 30957), (19, 30975),

Gene: Verity_38 Start: 34613, Stop: 34951, Start Num: 1
Candidate Starts for Verity_38:
(Start: 1 @34613 has 22 MA's), (2, 34652), (4, 34748), (5, 34751), (12, 34877), (16, 34895), (18, 34934), (19, 34937), (20, 34940),

Gene: ViaConlectus_39 Start: 33062, Stop: 33400, Start Num: 1
Candidate Starts for ViaConlectus_39:
(Start: 1 @33062 has 22 MA's), (2, 33101), (4, 33197), (5, 33200), (18, 33383), (19, 33386), (20, 33389),

Gene: Zipp_38 Start: 34516, Stop: 34854, Start Num: 1
Candidate Starts for Zipp_38:
(Start: 1 @34516 has 22 MA's), (2, 34555), (4, 34651), (5, 34654), (12, 34780), (16, 34798), (18, 34837), (19, 34840), (20, 34843),

Gene: Zitch_40 Start: 32319, Stop: 32657, Start Num: 1
Candidate Starts for Zitch_40:
(Start: 1 @32319 has 22 MA's), (2, 32358), (4, 32454), (5, 32457), (12, 32583), (16, 32601), (18, 32640), (19, 32643), (20, 32646),