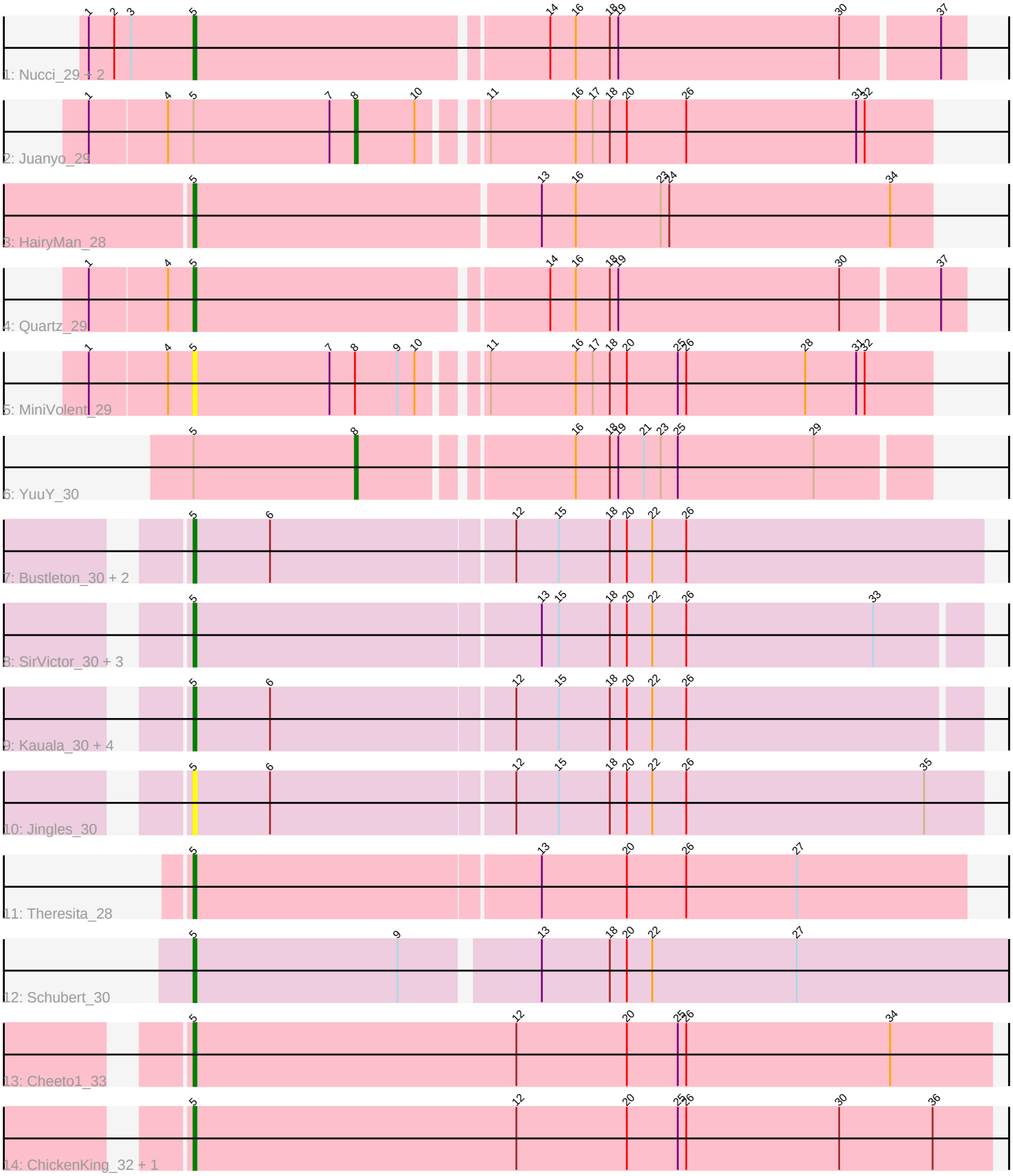
Pham 278512


1: Nucci_29 + 2
2: Juanyo_29
3: HairyMan_28
4: Quartz_29
5: MiniVolent_29
6: YuuY_30
7: Bustleton_30 + 2
8: SirVictor_30 + 3
9: Kauala_30 + 4
10: Jingles_30
11: Theresita_28
12: Schubert_30
13: Cheeto1_33
14: ChickenKing_32 + 1

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 278512 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278512 has 26 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Nucci_29, Carostasia_29, Mandalorian_29
• Track 2 : Juanyo_29
• Track 3 : HairyMan_28
• Track 4 : Quartz_29
• Track 5 : MiniVolent_29
• Track 6 : YuuY_30
• Track 7 : Bustleton_30, Sinatra_30, Pherbot_30
• Track 8 : SirVictor_30, Golden_30, Lucky3_30, Guetzie_30
• Track 9 : Kauala_30, PrincePhergus_30, Koji_30, BouleyBill_30, RenegadeRaider_31
• Track 10 : Jingles_30
• Track 11 : Theresita_28
• Track 12 : Schubert_30
• Track 13 : Cheeto1_33
• Track 14 : ChickenKing_32, GaeCeo_33

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

The start number called the most often in the published annotations is 5, it was called in 21 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BouleyBill_30, Bustleton_30, Carostasia_29, Cheeto1_33, ChickenKing_32, GaeCeo_33, Golden_30, Guetzie_30, HairyMan_28, Jingles_30, Kauala_30, Koji_30, Lucky3_30, Mandalorian_29, MiniVolent_29, Nucci_29, Pherbot_30, PrincePhergus_30, Quartz_29, RenegadeRaider_31, Schubert_30, Sinatra_30, SirVictor_30, Theresita_28,

Genes that have the "Most Annotated" start but do not call it:
• Juanyo_29, YuuY_30,

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

Summary by start number:

Start 5:
• Found in 26 of 26 (100.0%) of genes in pham
• Manual Annotations of this start: 21 of 23
• Called 92.3% of time when present
• Phage (with cluster) where this start called: BouleyBill_30 (EA4), Bustleton_30 (EA4), Carostasia_29 (EA10), Cheeto1_33 (EA9), ChickenKing_32 (EA9), GaeCeo_33 (EA9), Golden_30 (EA4), Guetzie_30 (EA4), HairyMan_28 (EA10), Jingles_30 (EA4), Kauala_30 (EA4), Koji_30 (EA4), Lucky3_30 (EA4), Mandalorian_29 (EA10), MiniVolent_29 (EA10), Nucci_29 (EA10), Pherbot_30 (EA4), PrincePhergus_30 (EA4), Quartz_29 (EA10), RenegadeRaider_31 (EA4), Schubert_30 (EA8), Sinatra_30 (EA4), SirVictor_30 (EA4), Theresita_28 (EA7),

Start 8:
• Found in 3 of 26 (11.5%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Juanyo_29 (EA10), YuuY_30 (EA10),

Summary by clusters:

There are 5 clusters represented in this pham: EA9, EA8, EA10, EA7, EA4,

Info for manual annotations of cluster EA10:
•Start number 5 was manually annotated 5 times for cluster EA10.
•Start number 8 was manually annotated 2 times for cluster EA10.

Info for manual annotations of cluster EA4:
•Start number 5 was manually annotated 11 times for cluster EA4.

Info for manual annotations of cluster EA7:
•Start number 5 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:
•Start number 5 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 5 was manually annotated 3 times for cluster EA9.

Gene Information:

Gene: BouleyBill_30 Start: 21998, Stop: 21723, Start Num: 5
Candidate Starts for BouleyBill_30:
(Start: 5 @21998 has 21 MA's), (6, 21971), (12, 21887), (15, 21872), (18, 21854), (20, 21848), (22, 21839), (26, 21827),

Gene: Bustleton_30 Start: 21998, Stop: 21723, Start Num: 5
Candidate Starts for Bustleton_30:
(Start: 5 @21998 has 21 MA's), (6, 21971), (12, 21887), (15, 21872), (18, 21854), (20, 21848), (22, 21839), (26, 21827),

Gene: Carostasia_29 Start: 21669, Stop: 21406, Start Num: 5
Candidate Starts for Carostasia_29:
(1, 21705), (2, 21696), (3, 21690), (Start: 5 @21669 has 21 MA's), (14, 21549), (16, 21540), (18, 21528), (19, 21525), (30, 21447), (37, 21414),

Gene: Cheeto1_33 Start: 22587, Stop: 22306, Start Num: 5
Candidate Starts for Cheeto1_33:
(Start: 5 @22587 has 21 MA's), (12, 22473), (20, 22434), (25, 22416), (26, 22413), (34, 22341),

Gene: ChickenKing_32 Start: 22500, Stop: 22219, Start Num: 5
Candidate Starts for ChickenKing_32:
(Start: 5 @22500 has 21 MA's), (12, 22386), (20, 22347), (25, 22329), (26, 22326), (30, 22272), (36, 22239),

Gene: GaeCeo_33 Start: 22736, Stop: 22455, Start Num: 5
Candidate Starts for GaeCeo_33:
(Start: 5 @22736 has 21 MA's), (12, 22622), (20, 22583), (25, 22565), (26, 22562), (30, 22508), (36, 22475),

Gene: Golden_30 Start: 22099, Stop: 21827, Start Num: 5
Candidate Starts for Golden_30:
(Start: 5 @22099 has 21 MA's), (13, 21979), (15, 21973), (18, 21955), (20, 21949), (22, 21940), (26, 21928), (33, 21862),

Gene: Guetzie_30 Start: 22087, Stop: 21815, Start Num: 5
Candidate Starts for Guetzie_30:
(Start: 5 @22087 has 21 MA's), (13, 21967), (15, 21961), (18, 21943), (20, 21937), (22, 21928), (26, 21916), (33, 21850),

Gene: HairyMan_28 Start: 21239, Stop: 20982, Start Num: 5
Candidate Starts for HairyMan_28:
(Start: 5 @21239 has 21 MA's), (13, 21119), (16, 21107), (23, 21077), (24, 21074), (34, 20996),

Gene: Jingles_30 Start: 22005, Stop: 21730, Start Num: 5
Candidate Starts for Jingles_30:
(Start: 5 @22005 has 21 MA's), (6, 21978), (12, 21894), (15, 21879), (18, 21861), (20, 21855), (22, 21846), (26, 21834), (35, 21750),

Gene: Juanyo_29 Start: 21545, Stop: 21351, Start Num: 8
Candidate Starts for Juanyo_29:
(1, 21638), (4, 21611), (Start: 5 @21602 has 21 MA's), (7, 21554), (Start: 8 @21545 has 2 MA's), (10, 21524), (11, 21506), (16, 21476), (17, 21470), (18, 21464), (20, 21458), (26, 21437), (31, 21377), (32, 21374),

Gene: Kauala_30 Start: 21991, Stop: 21719, Start Num: 5
Candidate Starts for Kauala_30:
(Start: 5 @21991 has 21 MA's), (6, 21964), (12, 21880), (15, 21865), (18, 21847), (20, 21841), (22, 21832), (26, 21820),

Gene: Koji_30 Start: 22126, Stop: 21851, Start Num: 5
Candidate Starts for Koji_30:

(Start: 5 @22126 has 21 MA's), (6, 22099), (12, 22015), (15, 22000), (18, 21982), (20, 21976), (22, 21967), (26, 21955),

Gene: Lucky3_30 Start: 22099, Stop: 21827, Start Num: 5
Candidate Starts for Lucky3_30:
(Start: 5 @22099 has 21 MA's), (13, 21979), (15, 21973), (18, 21955), (20, 21949), (22, 21940), (26, 21928), (33, 21862),

Gene: Mandalorian_29 Start: 21667, Stop: 21404, Start Num: 5
Candidate Starts for Mandalorian_29:
(1, 21703), (2, 21694), (3, 21688), (Start: 5 @21667 has 21 MA's), (14, 21547), (16, 21538), (18, 21526), (19, 21523), (30, 21445), (37, 21412),

Gene: MiniVolent_29 Start: 21561, Stop: 21310, Start Num: 5
Candidate Starts for MiniVolent_29:
(1, 21597), (4, 21570), (Start: 5 @21561 has 21 MA's), (7, 21513), (Start: 8 @21504 has 2 MA's), (9, 21489), (10, 21483), (11, 21465), (16, 21435), (17, 21429), (18, 21423), (20, 21417), (25, 21399), (26, 21396), (28, 21354), (31, 21336), (32, 21333),

Gene: Nucci_29 Start: 21656, Stop: 21393, Start Num: 5
Candidate Starts for Nucci_29:
(1, 21692), (2, 21683), (3, 21677), (Start: 5 @21656 has 21 MA's), (14, 21536), (16, 21527), (18, 21515), (19, 21512), (30, 21434), (37, 21401),

Gene: Pherbot_30 Start: 21997, Stop: 21722, Start Num: 5
Candidate Starts for Pherbot_30:
(Start: 5 @21997 has 21 MA's), (6, 21970), (12, 21886), (15, 21871), (18, 21853), (20, 21847), (22, 21838), (26, 21826),

Gene: PrincePhergus_30 Start: 22000, Stop: 21725, Start Num: 5
Candidate Starts for PrincePhergus_30:
(Start: 5 @22000 has 21 MA's), (6, 21973), (12, 21889), (15, 21874), (18, 21856), (20, 21850), (22, 21841), (26, 21829),

Gene: Quartz_29 Start: 21669, Stop: 21406, Start Num: 5
Candidate Starts for Quartz_29:
(1, 21705), (4, 21678), (Start: 5 @21669 has 21 MA's), (14, 21549), (16, 21540), (18, 21528), (19, 21525), (30, 21447), (37, 21414),

Gene: RenegadeRaider_31 Start: 21843, Stop: 21568, Start Num: 5
Candidate Starts for RenegadeRaider_31:
(Start: 5 @21843 has 21 MA's), (6, 21816), (12, 21732), (15, 21717), (18, 21699), (20, 21693), (22, 21684), (26, 21672),

Gene: Schubert_30 Start: 22008, Stop: 21727, Start Num: 5
Candidate Starts for Schubert_30:
(Start: 5 @22008 has 21 MA's), (9, 21936), (13, 21891), (18, 21867), (20, 21861), (22, 21852), (27, 21801),

Gene: Sinatra_30 Start: 21996, Stop: 21721, Start Num: 5
Candidate Starts for Sinatra_30:
(Start: 5 @21996 has 21 MA's), (6, 21969), (12, 21885), (15, 21870), (18, 21852), (20, 21846), (22, 21837), (26, 21825),

Gene: SirVictor_30 Start: 22087, Stop: 21815, Start Num: 5
Candidate Starts for SirVictor_30:
(Start: 5 @22087 has 21 MA's), (13, 21967), (15, 21961), (18, 21943), (20, 21937), (22, 21928), (26, 21916), (33, 21850),

Gene: Theresita_28 Start: 20735, Stop: 20466, Start Num: 5
Candidate Starts for Theresita_28:
(Start: 5 @20735 has 21 MA's), (13, 20615), (20, 20585), (26, 20564), (27, 20525),

Gene: YuuY_30 Start: 22217, Stop: 22026, Start Num: 8
Candidate Starts for YuuY_30:
(Start: 5 @22274 has 21 MA's), (Start: 8 @22217 has 2 MA's), (16, 22148), (18, 22136), (19, 22133), (21, 22124), (23, 22118), (25, 22112), (29, 22064),