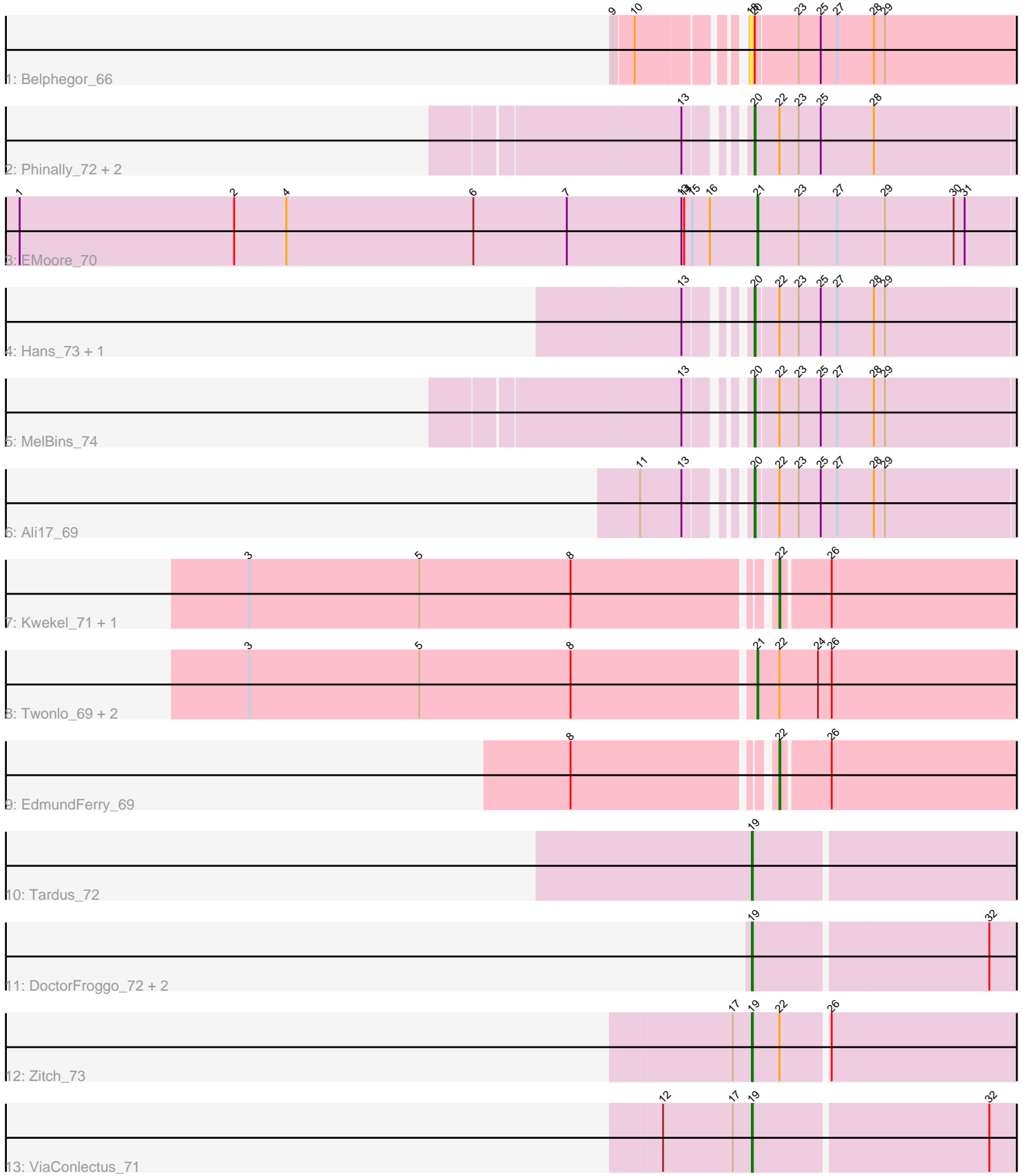# Pham 216573

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 216573 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216573 has 21 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Belphegor_66
• Track 2 : Phinally_72, Inspectinfecti_73, Leonard_72
• Track 3 : EMoore_70
• Track 4 : Hans_73, Phauci_64
• Track 5 : MelBins_74
• Track 6 : Ali17_69
• Track 7 : Kwekel_71, Chickadee_71
• Track 8 : Twonlo_69, GTE6_72, RoadKill_68
• Track 9 : EdmundFerry_69
• Track 10 : Tardus_72
• Track 11 : DoctorFroggo_72, Verity_72, Delrey21_72
• Track 12 : Zitch_73
• Track 13 : ViaConlectus_71

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

The start number called the most often in the published annotations is 20, it was called in 7 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ali17_69, Hans_73, Inspectinfecti_73, Leonard_72, MelBins_74, Phauci_64, Phinally_72,

Genes that have the "Most Annotated" start but do not call it:
• Belphegor_66,

Genes that do not have the "Most Annotated" start:
• Chickadee_71, Delrey21_72, DoctorFroggo_72, EMoore_70, EdmundFerry_69, GTE6_72, Kwekel_71, RoadKill_68, Tardus_72, Twonlo_69, Verity_72, ViaConlectus_71, Zitch_73,

Summary by start number:

Start 18:

• Found in 1 of 21 (4.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belphegor_66 (DE),

Start 19:
• Found in 6 of 21 (28.6%) of genes in pham
• Manual Annotations of this start: 6 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Delrey21_72 (DE4), DoctorFroggo_72 (DE4), Tardus_72 (DE4), Verity_72 (DE4), ViaConlectus_71 (DE4), Zitch_73 (DE4),

Start 20:
• Found in 8 of 21 (38.1%) of genes in pham
• Manual Annotations of this start: 7 of 19
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Ali17_69 (DE2), Hans_73 (DE2), Inspectinfecti_73 (DE2), Leonard_72 (DE2), MelBins_74 (DE2), Phauci_64 (DE2), Phinally_72 (DE2),

Start 21:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EMoore_70 (DE2), GTE6_72 (DE3), RoadKill_68 (DE3), Twonlo_69 (DE3),

Start 22:
• Found in 14 of 21 (66.7%) of genes in pham
• Manual Annotations of this start: 3 of 19
• Called 21.4% of time when present
• Phage (with cluster) where this start called: Chickadee_71 (DE3), EdmundFerry_69 (DE3), Kwekel_71 (DE3),

Summary by clusters:

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

Info for manual annotations of cluster DE2:
•Start number 20 was manually annotated 7 times for cluster DE2.
•Start number 21 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 21 was manually annotated 2 times for cluster DE3.
•Start number 22 was manually annotated 3 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 19 was manually annotated 6 times for cluster DE4.

Gene Information:

Gene: Ali17_69 Start: 52610, Stop: 52894, Start Num: 20
Candidate Starts for Ali17_69:
(11, 52523), (13, 52565), (Start: 20 @52610 has 7 MA's), (Start: 22 @52634 has 3 MA's), (23, 52655), (25, 52679), (27, 52697), (28, 52736), (29, 52748),

Gene: Belphegor_66 Start: 53613, Stop: 53903, Start Num: 18
Candidate Starts for Belphegor_66:
(9, 53499), (10, 53520), (18, 53613), (Start: 20 @53616 has 7 MA's), (23, 53661), (25, 53685), (27, 53703), (28, 53742), (29, 53754),

Gene: Chickadee_71 Start: 50496, Stop: 50762, Start Num: 22
Candidate Starts for Chickadee_71:
(3, 49947), (5, 50133), (8, 50298), (Start: 22 @50496 has 3 MA's), (26, 50547),

Gene: Delrey21_72 Start: 54939, Stop: 55223, Start Num: 19
Candidate Starts for Delrey21_72:
(Start: 19 @54939 has 6 MA's), (32, 55188),

Gene: DoctorFroggo_72 Start: 54939, Stop: 55223, Start Num: 19
Candidate Starts for DoctorFroggo_72:
(Start: 19 @54939 has 6 MA's), (32, 55188),

Gene: EMoore_70 Start: 54051, Stop: 54338, Start Num: 21
Candidate Starts for EMoore_70:
(1, 53250), (2, 53484), (4, 53541), (6, 53745), (7, 53847), (13, 53970), (14, 53973), (15, 53982), (16, 54000), (Start: 21 @54051 has 3 MA's), (23, 54096), (27, 54138), (29, 54189), (30, 54264), (31, 54276),

Gene: EdmundFerry_69 Start: 50048, Stop: 50314, Start Num: 22
Candidate Starts for EdmundFerry_69:
(8, 49850), (Start: 22 @50048 has 3 MA's), (26, 50099),

Gene: GTE6_72 Start: 51283, Stop: 51579, Start Num: 21
Candidate Starts for GTE6_72:
(3, 50740), (5, 50926), (8, 51091), (Start: 21 @51283 has 3 MA's), (Start: 22 @51307 has 3 MA's), (24, 51349), (26, 51364),

Gene: Hans_73 Start: 53483, Stop: 53767, Start Num: 20
Candidate Starts for Hans_73:
(13, 53438), (Start: 20 @53483 has 7 MA's), (Start: 22 @53507 has 3 MA's), (23, 53528), (25, 53552), (27, 53570), (28, 53609), (29, 53621),

Gene: Inspectinfecti_73 Start: 53454, Stop: 53741, Start Num: 20
Candidate Starts for Inspectinfecti_73:
(13, 53409), (Start: 20 @53454 has 7 MA's), (Start: 22 @53481 has 3 MA's), (23, 53502), (25, 53526), (28, 53583),

Gene: Kwekel_71 Start: 50409, Stop: 50675, Start Num: 22
Candidate Starts for Kwekel_71:
(3, 49860), (5, 50046), (8, 50211), (Start: 22 @50409 has 3 MA's), (26, 50460),

Gene: Leonard_72 Start: 53517, Stop: 53804, Start Num: 20
Candidate Starts for Leonard_72:

(13, 53472), (Start: 20 @53517 has 7 MA's), (Start: 22 @53544 has 3 MA's), (23, 53565), (25, 53589), (28, 53646),

Gene: MelBins_74 Start: 53725, Stop: 54009, Start Num: 20
Candidate Starts for MelBins_74:
(13, 53680), (Start: 20 @53725 has 7 MA's), (Start: 22 @53749 has 3 MA's), (23, 53770), (25, 53794), (27, 53812), (28, 53851), (29, 53863),

Gene: Phauci_64 Start: 50560, Stop: 50844, Start Num: 20
Candidate Starts for Phauci_64:
(13, 50515), (Start: 20 @50560 has 7 MA's), (Start: 22 @50584 has 3 MA's), (23, 50605), (25, 50629), (27, 50647), (28, 50686), (29, 50698),

Gene: Phinally_72 Start: 53514, Stop: 53801, Start Num: 20
Candidate Starts for Phinally_72:
(13, 53469), (Start: 20 @53514 has 7 MA's), (Start: 22 @53541 has 3 MA's), (23, 53562), (25, 53586), (28, 53643),

Gene: RoadKill_68 Start: 49908, Stop: 50204, Start Num: 21
Candidate Starts for RoadKill_68:
(3, 49365), (5, 49551), (8, 49716), (Start: 21 @49908 has 3 MA's), (Start: 22 @49932 has 3 MA's), (24, 49974), (26, 49989),

Gene: Tardus_72 Start: 53609, Stop: 53890, Start Num: 19
Candidate Starts for Tardus_72:
(Start: 19 @53609 has 6 MA's),

Gene: Twonlo_69 Start: 50462, Stop: 50758, Start Num: 21
Candidate Starts for Twonlo_69:
(3, 49919), (5, 50105), (8, 50270), (Start: 21 @50462 has 3 MA's), (Start: 22 @50486 has 3 MA's), (24, 50528), (26, 50543),

Gene: Verity_72 Start: 54939, Stop: 55223, Start Num: 19
Candidate Starts for Verity_72:
(Start: 19 @54939 has 6 MA's), (32, 55188),

Gene: ViaConlectus_71 Start: 52277, Stop: 52561, Start Num: 19
Candidate Starts for ViaConlectus_71:
(12, 52181), (17, 52256), (Start: 19 @52277 has 6 MA's), (32, 52526),

Gene: Zitch_73 Start: 52986, Stop: 53270, Start Num: 19
Candidate Starts for Zitch_73:
(17, 52965), (Start: 19 @52986 has 6 MA's), (Start: 22 @53016 has 3 MA's), (26, 53064),