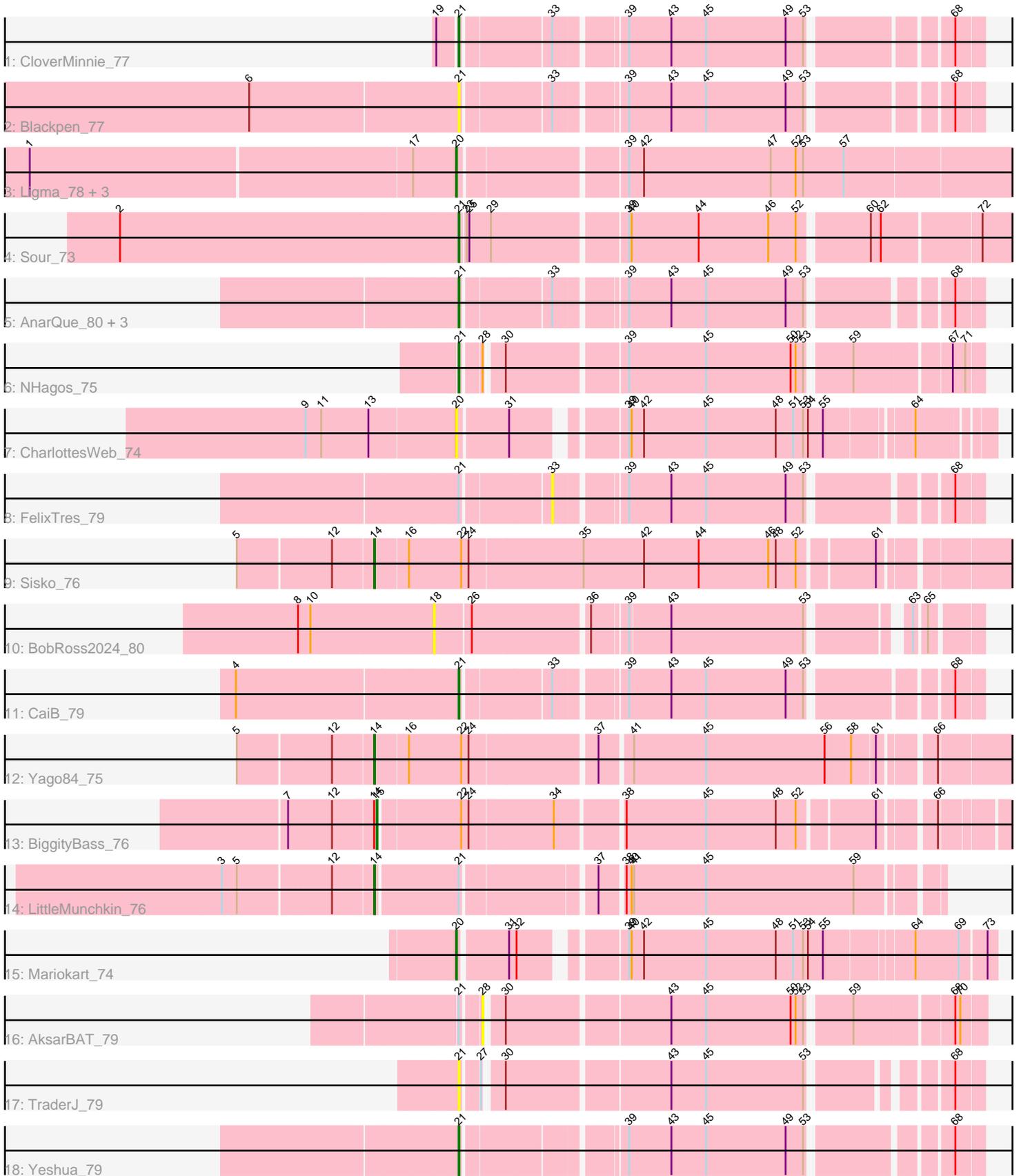# Pham 282439

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 282439 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282439 has 24 members, 6 are drafts.

Phages represented in each track:
• Track 1 : CloverMinnie_77
• Track 2 : Blackpen_77
• Track 3 : Ligma_78, Axumite_78, Fresco_78, Shatter_78
• Track 4 : Sour_73
• Track 5 : AnarQue_80, MossRose_78, Wooper_80, MakoManhole_75
• Track 6 : NHagos_75
• Track 7 : CharlottesWeb_74
• Track 8 : FelixTres_79
• Track 9 : Sisko_76
• Track 10 : BobRoss2024_80
• Track 11 : CaiB_79
• Track 12 : Yago84_75
• Track 13 : BiggityBass_76
• Track 14 : LittleMunchkin_76
• Track 15 : Mariokart_74
• Track 16 : AksarBAT_79
• Track 17 : TraderJ_79
• Track 18 : Yeshua_79

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

The start number called the most often in the published annotations is 21, it was called in 9 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnarQue_80, Blackpen_77, CaiB_79, CloverMinnie_77, MakoManhole_75, MossRose_78, NHagos_75, Sour_73, TraderJ_79, Wooper_80, Yeshua_79,

Genes that have the "Most Annotated" start but do not call it:
• AksarBAT_79, FelixTres_79, LittleMunchkin_76,

Genes that do not have the "Most Annotated" start:
• Axumite_78, BiggityBass_76, BobRoss2024_80, CharlottesWeb_74, Fresco_78, Ligma_78, Mariokart_74, Shatter_78, Sisko_76, Yago84_75,

Summary by start number:

Start 14:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 75.0% of time when present
• Phage (with cluster) where this start called: LittleMunchkin_76 (DR), Sisko_76 (DR), Yago84_75 (DR),

Start 15:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BiggityBass_76 (DR),

Start 18:
• Found in 1 of 24 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BobRoss2024_80 (DR),

Start 20:
• Found in 6 of 24 (25.0%) of genes in pham
• Manual Annotations of this start: 5 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Axumite_78 (DR), CharlottesWeb_74 (DR), Fresco_78 (DR), Ligma_78 (DR), Mariokart_74 (DR), Shatter_78 (DR),

Start 21:
• Found in 14 of 24 (58.3%) of genes in pham
• Manual Annotations of this start: 9 of 18
• Called 78.6% of time when present
• Phage (with cluster) where this start called: AnarQue_80 (DR), Blackpen_77 (DR), CaiB_79 (DR), CloverMinnie_77 (DR), MakoManhole_75 (DR), MossRose_78 (DR), NHagos_75 (DR), Sour_73 (DR), TraderJ_79 (DR), Wooper_80 (DR), Yeshua_79 (DR),

Start 28:
• Found in 2 of 24 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AksarBAT_79 (DR),

Start 33:
• Found in 8 of 24 (33.3%) of genes in pham
• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: FelixTres_79 (DR),

Summary by clusters:

There is one cluster represented in this pham: DR

Info for manual annotations of cluster DR:
•Start number 14 was manually annotated 3 times for cluster DR.
•Start number 15 was manually annotated 1 time for cluster DR.
•Start number 20 was manually annotated 5 times for cluster DR.
•Start number 21 was manually annotated 9 times for cluster DR.

Gene Information:

Gene: AksarBAT_79 Start: 57782, Stop: 57225, Start Num: 28
Candidate Starts for AksarBAT_79:
(Start: 21 @57800 has 9 MA's), (28, 57782), (30, 57764), (43, 57578), (45, 57536), (50, 57434), (52, 57428), (53, 57419), (59, 57371), (68, 57260), (70, 57254),

Gene: AnarQue_80 Start: 58928, Stop: 58365, Start Num: 21
Candidate Starts for AnarQue_80:
(Start: 21 @58928 has 9 MA's), (33, 58829), (39, 58754), (43, 58703), (45, 58661), (49, 58565), (53, 58544), (68, 58397),

Gene: Axumite_78 Start: 57722, Stop: 57081, Start Num: 20
Candidate Starts for Axumite_78:
(1, 58226), (17, 57773), (Start: 20 @57722 has 5 MA's), (39, 57536), (42, 57518), (47, 57365), (52, 57335), (53, 57326), (57, 57278),

Gene: BiggityBass_76 Start: 59275, Stop: 58550, Start Num: 15
Candidate Starts for BiggityBass_76:
(7, 59377), (12, 59326), (Start: 14 @59278 has 3 MA's), (Start: 15 @59275 has 1 MA's), (22, 59182), (24, 59173), (34, 59074), (38, 59002), (45, 58906), (48, 58822), (52, 58798), (61, 58714), (66, 58657),

Gene: Blackpen_77 Start: 57391, Stop: 56825, Start Num: 21
Candidate Starts for Blackpen_77:
(6, 57637), (Start: 21 @57391 has 9 MA's), (33, 57292), (39, 57217), (43, 57166), (45, 57124), (49, 57028), (53, 57007), (68, 56857),

Gene: BobRoss2024_80 Start: 58265, Stop: 57684, Start Num: 18
Candidate Starts for BobRoss2024_80:
(8, 58427), (10, 58412), (18, 58265), (26, 58226), (36, 58094), (39, 58055), (43, 58007), (53, 57848), (63, 57752), (65, 57740),

Gene: CaiB_79 Start: 58726, Stop: 58160, Start Num: 21
Candidate Starts for CaiB_79:
(4, 58987), (Start: 21 @58726 has 9 MA's), (33, 58627), (39, 58552), (43, 58501), (45, 58459), (49, 58363), (53, 58342), (68, 58192),

Gene: CharlottesWeb_74 Start: 56348, Stop: 55770, Start Num: 20
Candidate Starts for CharlottesWeb_74:
(9, 56525), (11, 56507), (13, 56450), (Start: 20 @56348 has 5 MA's), (31, 56291), (39, 56180), (40, 56177), (42, 56162), (45, 56087), (48, 56003), (51, 55982), (53, 55970), (54, 55964), (55, 55946), (64, 55850),

Gene: CloverMinnie_77 Start: 57895, Stop: 57329, Start Num: 21

Candidate Starts for CloverMinnie_77:
(19, 57916), (Start: 21 @57895 has 9 MA's), (33, 57796), (39, 57721), (43, 57670), (45, 57628), (49, 57532), (53, 57511), (68, 57361),

Gene: FelixTres_79 Start: 58071, Stop: 57607, Start Num: 33
Candidate Starts for FelixTres_79:
(Start: 21 @58170 has 9 MA's), (33, 58071), (39, 57996), (43, 57945), (45, 57903), (49, 57807), (53, 57786), (68, 57639),

Gene: Fresco_78 Start: 57728, Stop: 57087, Start Num: 20
Candidate Starts for Fresco_78:
(1, 58232), (17, 57779), (Start: 20 @57728 has 5 MA's), (39, 57542), (42, 57524), (47, 57371), (52, 57341), (53, 57332), (57, 57284),

Gene: Ligma_78 Start: 57722, Stop: 57081, Start Num: 20
Candidate Starts for Ligma_78:
(1, 58226), (17, 57773), (Start: 20 @57722 has 5 MA's), (39, 57536), (42, 57518), (47, 57365), (52, 57335), (53, 57326), (57, 57278),

Gene: LittleMunchkin_76 Start: 59392, Stop: 58763, Start Num: 14
Candidate Starts for LittleMunchkin_76:
(3, 59566), (5, 59548), (12, 59440), (Start: 14 @59392 has 3 MA's), (Start: 21 @59296 has 9 MA's), (37, 59149), (38, 59125), (40, 59119), (41, 59116), (45, 59029), (59, 58852),

Gene: MakoManhole_75 Start: 57267, Stop: 56704, Start Num: 21
Candidate Starts for MakoManhole_75:
(Start: 21 @57267 has 9 MA's), (33, 57168), (39, 57093), (43, 57042), (45, 57000), (49, 56904), (53, 56883), (68, 56736),

Gene: Mariokart_74 Start: 56634, Stop: 56044, Start Num: 20
Candidate Starts for Mariokart_74:
(Start: 20 @56634 has 5 MA's), (31, 56580), (32, 56571), (39, 56469), (40, 56466), (42, 56451), (45, 56376), (48, 56292), (51, 56271), (53, 56259), (54, 56253), (55, 56235), (64, 56136), (69, 56085), (73, 56055),

Gene: MossRose_78 Start: 58178, Stop: 57615, Start Num: 21
Candidate Starts for MossRose_78:
(Start: 21 @58178 has 9 MA's), (33, 58079), (39, 58004), (43, 57953), (45, 57911), (49, 57815), (53, 57794), (68, 57647),

Gene: NHagos_75 Start: 56476, Stop: 55907, Start Num: 21
Candidate Starts for NHagos_75:
(Start: 21 @56476 has 9 MA's), (28, 56458), (30, 56440), (39, 56308), (45, 56215), (50, 56113), (52, 56107), (53, 56098), (59, 56050), (67, 55942), (71, 55927),

Gene: Shatter_78 Start: 57722, Stop: 57081, Start Num: 20
Candidate Starts for Shatter_78:
(1, 58226), (17, 57773), (Start: 20 @57722 has 5 MA's), (39, 57536), (42, 57518), (47, 57365), (52, 57335), (53, 57326), (57, 57278),

Gene: Sisko_76 Start: 58151, Stop: 57393, Start Num: 14
Candidate Starts for Sisko_76:

(5, 58307), (12, 58199), (Start: 14 @58151 has 3 MA's), (16, 58112), (22, 58049), (24, 58040), (35, 57905), (42, 57833), (44, 57767), (46, 57683), (48, 57674), (52, 57650), (61, 57566),

Gene: Sour_73 Start: 58426, Stop: 57770, Start Num: 21
Candidate Starts for Sour_73:
(2, 58831), (Start: 21 @58426 has 9 MA's), (23, 58420), (25, 58417), (29, 58393), (39, 58240), (40, 58237), (44, 58156), (46, 58072), (52, 58039), (60, 57961), (62, 57949), (72, 57835),

Gene: TraderJ_79 Start: 58292, Stop: 57744, Start Num: 21
Candidate Starts for TraderJ_79:
(Start: 21 @58292 has 9 MA's), (27, 58274), (30, 58256), (43, 58070), (45, 58028), (53, 57911), (68, 57776),

Gene: Wooper_80 Start: 58260, Stop: 57697, Start Num: 21
Candidate Starts for Wooper_80:
(Start: 21 @58260 has 9 MA's), (33, 58161), (39, 58086), (43, 58035), (45, 57993), (49, 57897), (53, 57876), (68, 57729),

Gene: Yago84_75 Start: 57850, Stop: 57104, Start Num: 14
Candidate Starts for Yago84_75:
(5, 58006), (12, 57898), (Start: 14 @57850 has 3 MA's), (16, 57811), (22, 57748), (24, 57739), (37, 57595), (41, 57562), (45, 57475), (56, 57334), (58, 57304), (61, 57277), (66, 57220),

Gene: Yeshua_79 Start: 58236, Stop: 57673, Start Num: 21
Candidate Starts for Yeshua_79:
(Start: 21 @58236 has 9 MA's), (39, 58062), (43, 58011), (45, 57969), (49, 57873), (53, 57852), (68, 57705),